

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457491

Luminaire Tested: **GALN-SA8D-750-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61947 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

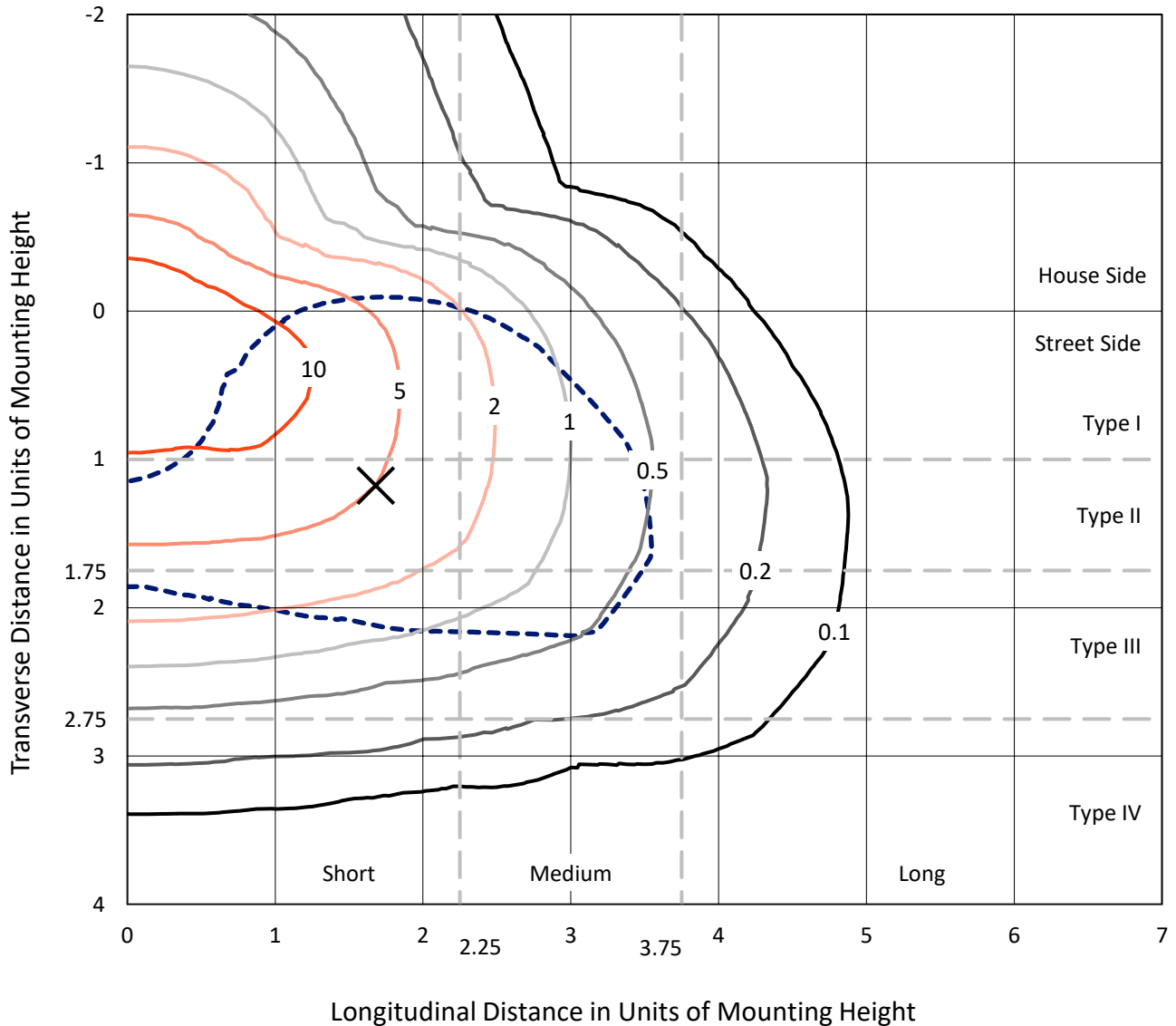
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

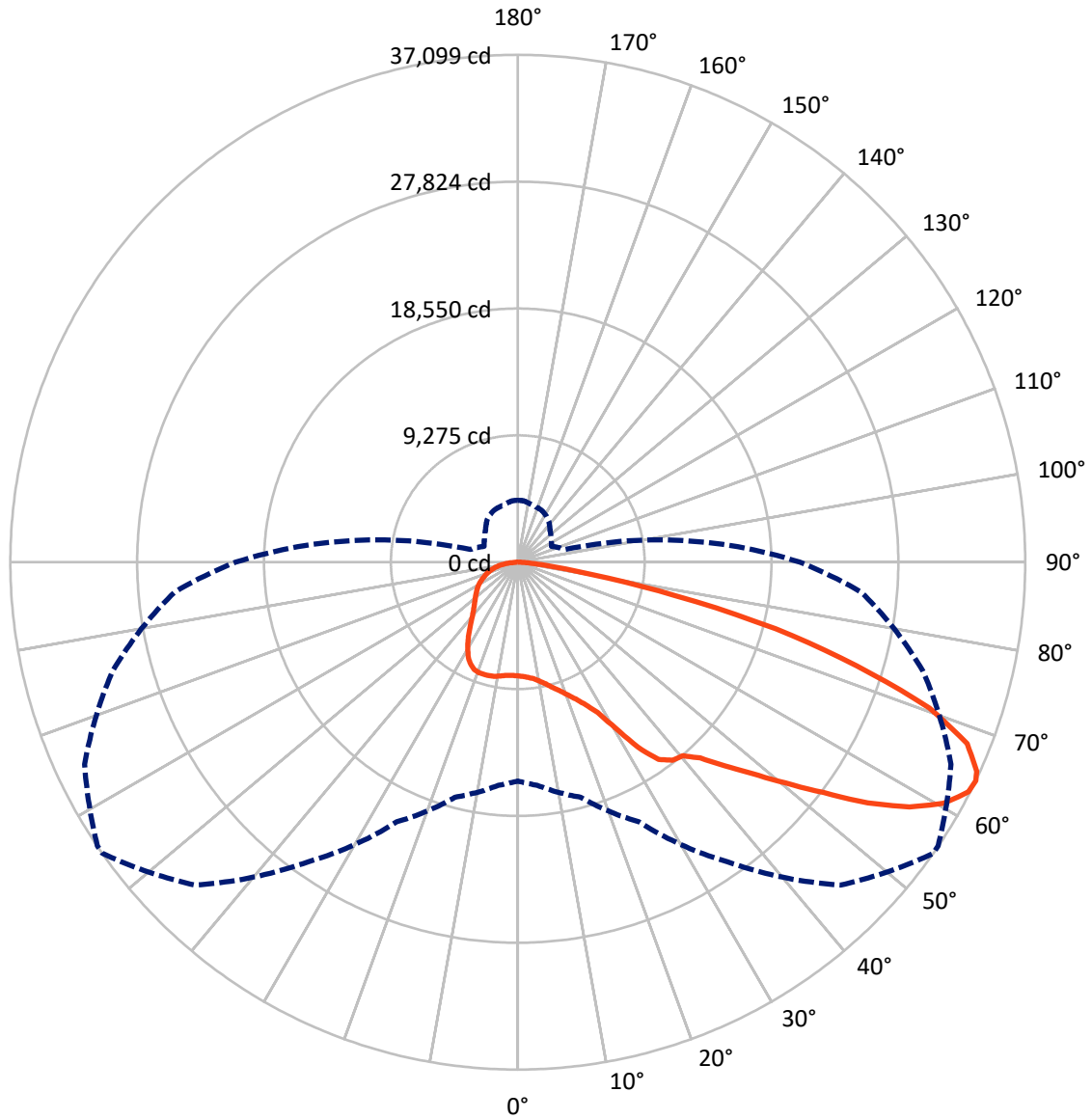
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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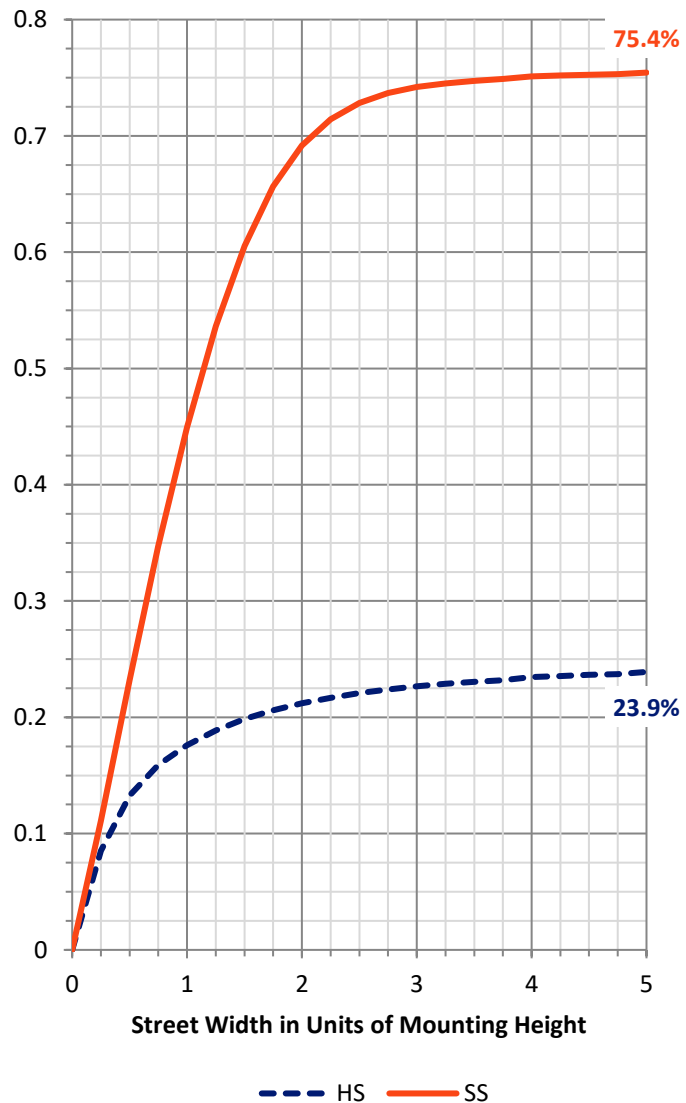
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15048.2	0.0	15048.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	46898.9	0.0	46898.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	61947.0	0.0	61947.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.5	1.3
10°-20°	2551.0	4.1
20°-30°	4541.5	7.3
30°-40°	6987.5	11.3
40°-50°	9905.4	16.0
50°-60°	14337.8	23.1
60°-70°	14838.1	24.0
70°-80°	6948.7	11.2
80°-90°	1028.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	61947.0	100.0
0°-180°	61947.0	100.0



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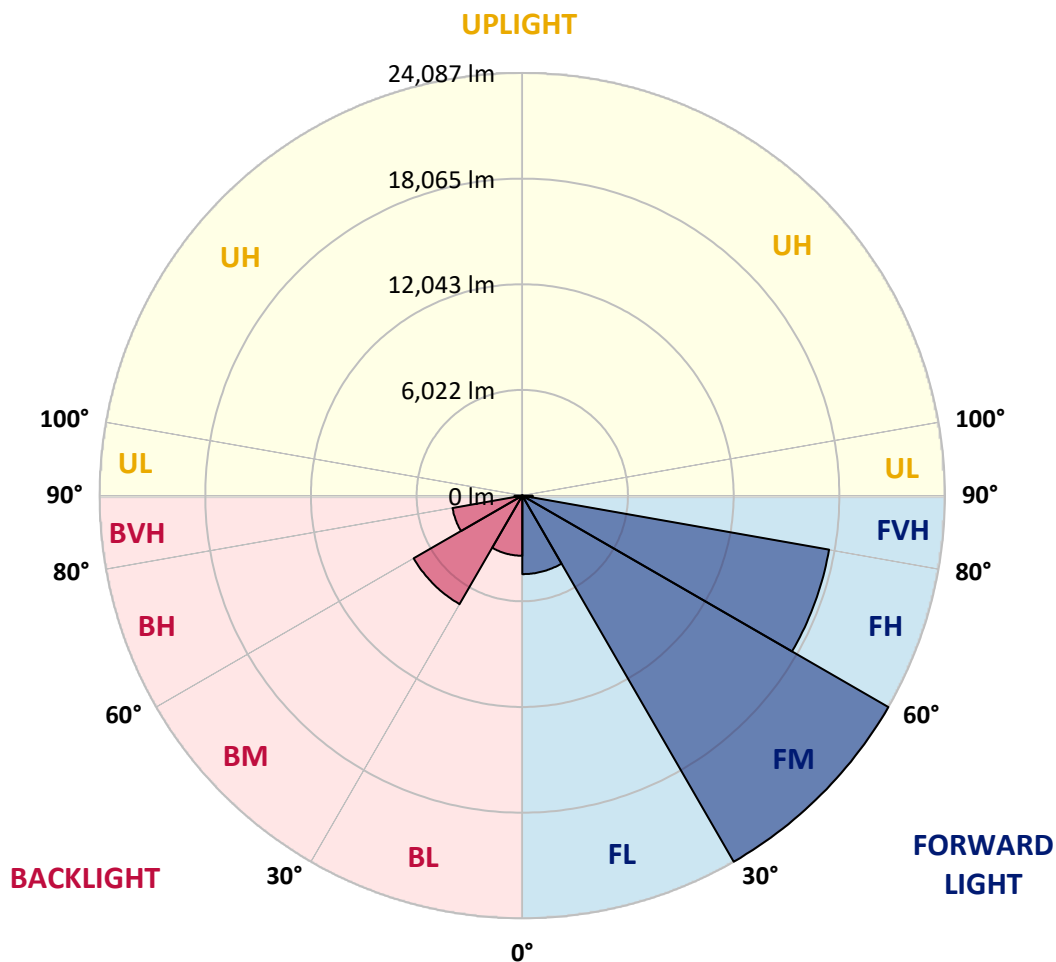
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4473.6	7.2			
FM	(30°-60°)	24086.7	38.9			
FH	(60°-80°)	17749.6	28.7			G5
FVH	(80°-90°)	589.0	1.0			G4/750
BL	(0°-30°)	3427.4	5.5	B4/5000		
BM	(30°-60°)	7144.0	11.5	B4/8500		
BH	(60°-80°)	4037.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	439.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4
2.5°	8404.6	8401.2	8411.6	8401.2	8408.1	8383.9	8373.6	8380.5	8370.1	8352.9	8321.8
5°	8508.2	8504.8	8508.2	8494.4	8501.3	8487.5	8463.4	8470.3	8453.0	8415.0	8370.1
7.5°	8684.3	8670.5	8670.5	8667.1	8653.3	8632.5	8615.3	8608.4	8591.1	8542.8	8473.7
10°	8912.2	8912.2	8915.7	8888.1	8905.3	8867.4	8850.1	8846.6	8787.9	8725.8	8629.1
12.5°	9212.7	9229.9	9219.6	9205.7	9198.8	9185.0	9126.3	9140.1	9074.5	8967.5	8850.1
15°	9585.6	9613.2	9595.9	9589.0	9571.8	9520.0	9495.8	9485.4	9399.1	9243.7	9088.3
17.5°	10079.4	10044.8	10031.0	10013.8	9941.2	9903.3	9861.8	9854.9	9779.0	9595.9	9354.2
20°	10511.0	10559.3	10531.7	10514.4	10441.9	10369.4	10338.3	10328.0	10262.4	10062.1	9675.4
22.5°	11025.5	11035.8	11046.2	11004.8	10970.2	10915.0	10859.7	10842.5	10818.3	10611.1	10138.1
25°	11574.5	11616.0	11581.4	11540.0	11498.6	11495.1	11546.9	11540.0	11529.6	11329.4	10752.7
27.5°	12468.9	12506.8	12517.2	12472.3	12313.5	12327.3	12444.7	12482.7	12641.5	12310.0	11543.4
30°	12973.0	13011.0	13097.3	13266.5	13518.6	13739.6	14022.7	14109.0	14261.0	13636.0	12482.7
32.5°	13283.8	13297.6	13453.0	13767.2	14523.4	15348.7	16118.7	16149.8	16246.5	15369.4	13342.5
35°	13774.1	13784.5	13908.8	14254.1	15141.5	16515.8	17707.1	17745.1	17665.6	15908.1	13743.0
37.5°	14378.4	14406.0	14485.4	14772.0	15832.1	17493.0	18366.6	18339.0	17634.6	16336.2	14450.9
40°	15258.9	15258.9	15165.7	15552.4	16560.7	18052.4	18598.0	18549.6	18363.2	17575.9	15528.2
42.5°	16035.8	16022.0	16243.0	16505.4	17472.3	18915.6	19568.3	19647.7	19955.0	19133.2	16754.0
45°	17047.6	17109.7	17234.0	17710.5	19022.7	20390.1	21232.6	21308.6	21743.7	20966.7	18187.1
47.5°	18069.7	18090.4	18480.6	19115.9	20942.6	22389.4	23080.0	23204.3	23601.4	23111.1	19730.6
50°	18794.8	18991.6	19616.6	20618.0	22921.1	24827.2	25365.9	25514.4	26215.3	25445.3	21529.6
52.5°	19561.4	19754.7	20517.8	22044.1	25193.2	27320.3	27983.3	28083.4	28812.0	27807.2	23370.0
55°	20217.4	20397.0	21263.7	23307.9	27002.6	29865.2	31066.8	30949.4	31298.2	29626.9	24789.2
57.5°	20324.5	20469.5	21560.7	24115.9	28363.1	32047.5	33770.5	33839.6	33435.6	30987.4	25959.8
60°	19495.7	19792.7	21046.2	24029.6	28974.3	33566.8	35787.1	35835.4	34689.0	31684.9	26426.0
62.5°	18028.2	17997.1	19513.0	22641.4	28117.9	33912.1	36974.9	36923.1	35179.4	31350.0	25973.6
64°	16001.3	16374.2	17790.0	20935.7	26736.7	33380.3	37099.2	37071.6	34944.6	30652.5	25203.6
65°	14765.1	14744.4	16142.9	19540.6	25362.4	32579.2	36878.2	36840.3	34454.2	30027.5	24606.2
67.5°	10659.5	10707.8	12089.0	15079.3	20618.0	29447.3	35438.3	35296.8	32520.5	27955.6	22334.1
70°	6457.1	6484.8	7569.0	10003.4	14799.6	23805.1	31943.9	31950.8	29561.3	24861.7	19008.9
72.5°	3401.2	3473.7	3908.8	5680.2	8988.2	16702.3	25914.9	26529.5	25379.7	21218.8	15017.2
75°	1892.3	1902.6	2209.9	2800.4	4585.6	9347.3	19478.5	19654.6	20093.1	17078.6	11104.9
77.5°	1443.4	1464.1	1560.8	1809.4	2496.5	4333.5	11788.6	12672.6	14160.8	12040.7	6336.3
80°	1170.6	1191.3	1274.2	1422.6	1660.9	2054.5	5476.5	5953.0	7579.4	5345.3	2472.4
82.5°	911.6	897.8	1004.8	1101.5	1208.6	1215.5	2247.9	2486.2	3087.0	2299.7	1070.4
85°	676.8	676.8	763.1	742.4	780.4	711.3	991.0	1094.6	1236.2	977.2	497.2
87.5°	269.3	297.0	500.7	448.9	348.8	279.7	366.0	386.7	428.2	383.3	207.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4	8311.4
2.5°	8325.2	8335.6	8311.4	8294.2	8287.2	8276.9	8266.5	8270.0	8283.8	8297.6	8294.2
5°	8366.7	8370.1	8328.7	8308.0	8294.2	8280.3	8280.3	8290.7	8318.3	8339.0	8339.0
7.5°	8470.3	8470.3	8411.6	8373.6	8352.9	8328.7	8321.8	8325.2	8345.9	8373.6	8377.0
10°	8632.5	8618.7	8542.8	8484.1	8446.1	8387.4	8335.6	8308.0	8318.3	8335.6	8335.6
12.5°	8829.4	8791.4	8694.7	8615.3	8522.1	8411.6	8304.5	8249.3	8245.8	8263.1	8256.2
15°	9040.0	8998.6	8863.9	8718.9	8556.6	8394.3	8266.5	8187.1	8125.0	8107.7	8145.7
17.5°	9285.2	9198.8	9012.4	8812.1	8570.4	8359.8	8159.5	7997.2	7886.7	7855.6	7866.0
20°	9582.1	9468.2	9216.1	8901.9	8560.0	8235.5	7924.7	7707.1	7527.6	7472.3	7479.2
22.5°	9993.0	9796.2	9426.7	8946.8	8473.7	8000.6	7569.0	7285.9	7068.3	6982.0	7033.8
25°	10459.2	10245.1	9627.0	8936.4	8249.3	7624.3	7147.8	6778.3	6581.5	6453.7	6481.3
27.5°	11101.5	10721.6	9841.1	8843.2	7928.1	7165.0	6612.5	6263.8	6084.2	6018.6	6049.7
30°	11923.3	11339.7	10072.5	8591.1	7420.5	6584.9	6073.9	5846.0	5738.9	5656.0	5683.7
32.5°	12517.2	11774.8	10124.3	8166.4	6871.5	6056.6	5707.8	5538.6	5421.2	5341.8	5359.1
35°	12941.9	12144.3	10100.1	7645.0	6298.3	5621.5	5417.8	5279.7	5089.8	4917.1	4886.0
37.5°	13511.7	12607.0	9924.0	7075.2	5732.0	5328.0	5183.0	4927.5	4654.7	4423.3	4413.0
40°	14385.3	13149.1	9547.6	6405.4	5248.6	5110.5	4934.4	4602.9	4309.4	4122.9	4109.1
42.5°	15286.5	13649.8	9036.6	5700.9	4851.5	4882.6	4668.5	4340.4	4160.9	4040.0	4026.2
45°	16388.0	14191.9	8484.1	5089.8	4558.0	4668.5	4437.1	4247.2	4140.2	4060.8	4040.0
47.5°	17579.3	14747.8	7862.5	4540.7	4309.4	4471.7	4340.4	4254.1	4195.4	4140.2	4116.0
50°	18863.8	15369.4	7279.0	4098.7	4084.9	4267.9	4330.1	4299.0	4264.5	4247.2	4226.5
52.5°	20272.7	16004.7	6788.6	3788.0	3888.1	4122.9	4333.5	4357.7	4357.7	4347.4	4333.5
55°	21225.7	16446.7	6291.4	3535.9	3687.8	4005.5	4326.6	4419.9	4454.4	4440.6	4426.8
57.5°	21930.1	16688.4	5666.4	3318.4	3518.6	3891.6	4288.7	4426.8	4461.3	4478.6	4471.7
60°	22075.2	16464.0	4848.0	3090.5	3335.6	3725.8	4150.5	4323.2	4368.1	4475.1	4485.5
62.5°	21422.5	15773.4	4033.1	2866.0	3111.2	3473.7	3964.1	4205.8	4295.6	4461.3	4478.6
64°	20621.4	14999.9	3580.8	2724.4	2966.1	3332.2	3870.8	4174.7	4292.1	4513.1	4526.9
65°	20034.4	14437.1	3297.6	2634.7	2872.9	3238.9	3819.0	4185.1	4323.2	4592.5	4613.2
67.5°	17872.8	12499.9	2727.9	2424.0	2651.9	3080.1	3829.4	4271.4	4316.3	4623.6	4620.1
70°	14789.3	9951.6	2285.9	2230.7	2437.8	2952.3	3788.0	4133.3	4136.7	4340.4	4292.1
72.5°	11073.8	7354.9	1982.0	2030.4	2199.6	2648.5	3577.3	3946.8	3888.1	3915.7	3867.4
75°	7607.0	4865.3	1705.8	1816.3	1951.0	2341.1	3280.4	3584.2	3491.0	3456.5	3421.9
77.5°	4060.8	2689.9	1419.2	1605.7	1695.4	2023.5	2862.6	3156.1	3059.4	2924.7	2879.8
80°	1643.6	1267.3	1142.9	1329.4	1381.2	1629.8	2382.6	2565.6	2493.1	2258.3	2182.3
82.5°	825.3	759.7	897.8	1046.3	1049.7	1163.7	1771.4	1944.0	1781.8	1495.2	1429.6
85°	431.6	445.4	618.1	735.5	649.2	628.4	1063.5	1177.5	1080.8	939.2	846.0
87.5°	155.4	179.6	324.6	321.1	227.9	120.9	234.8	113.9	62.2	38.0	48.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)