

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: P456502

Luminaire Tested: **GALN-SA7D-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39288 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 433
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

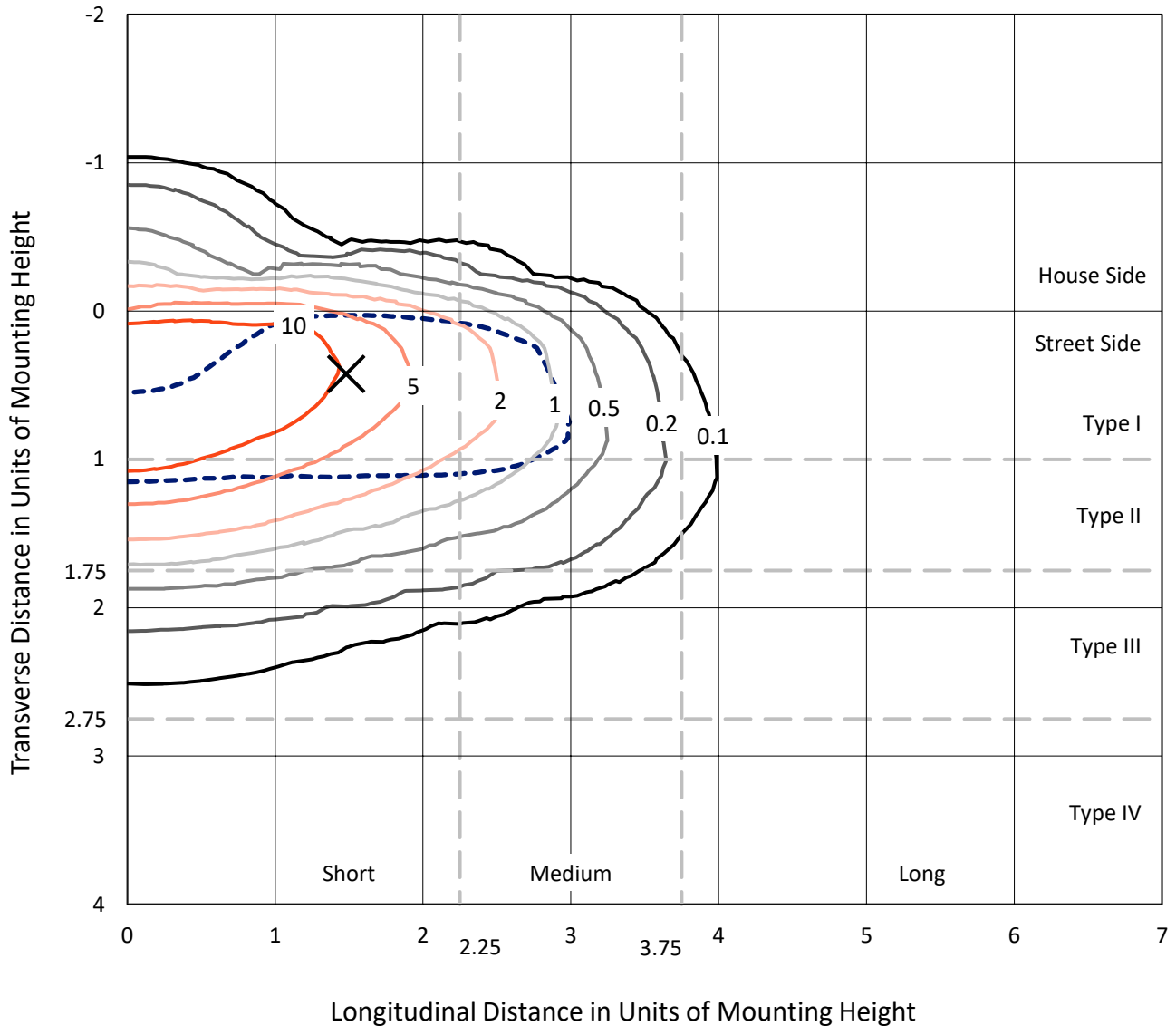




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Iso-Footcandle Lines of Horizontal Illumination

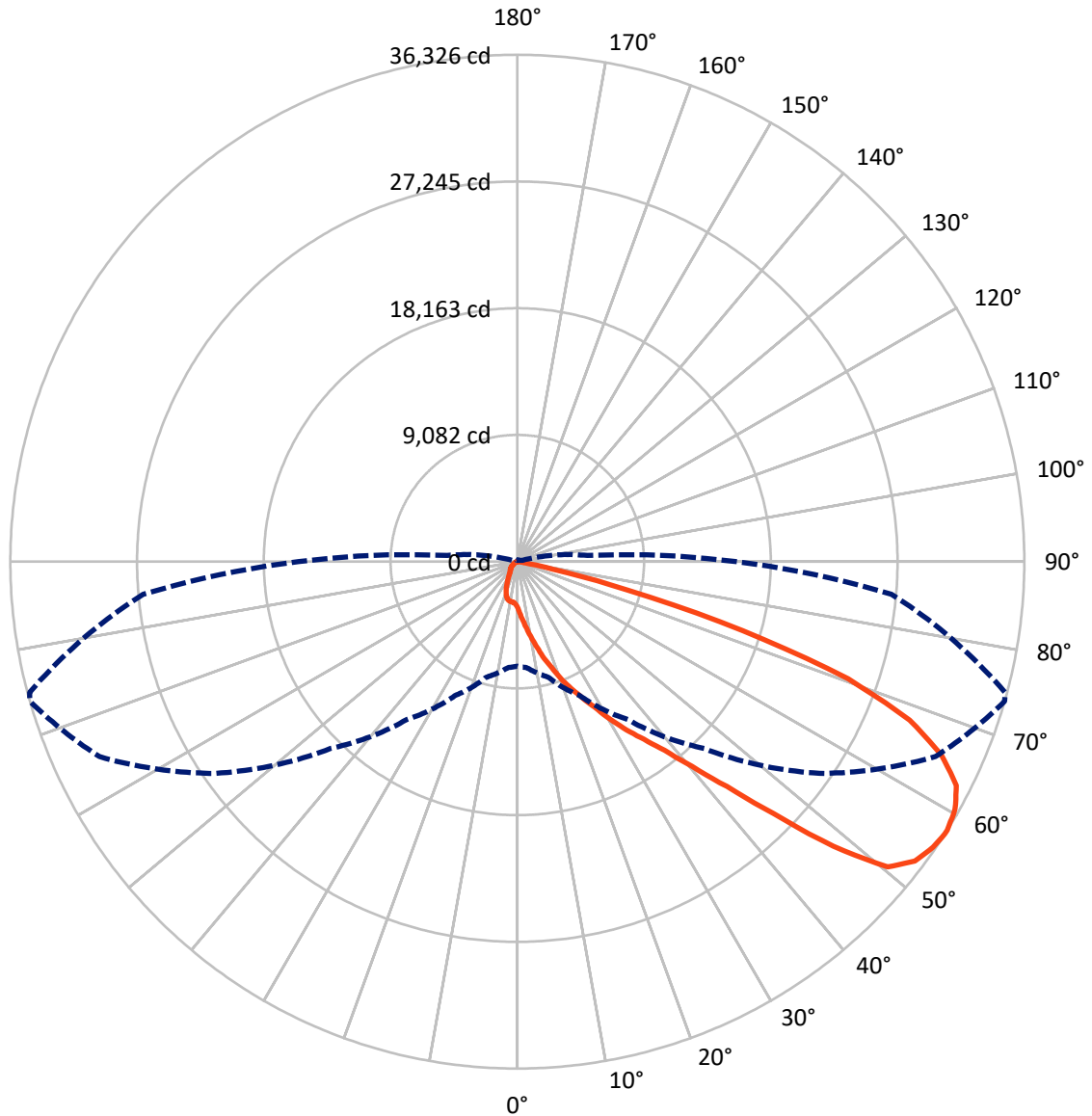
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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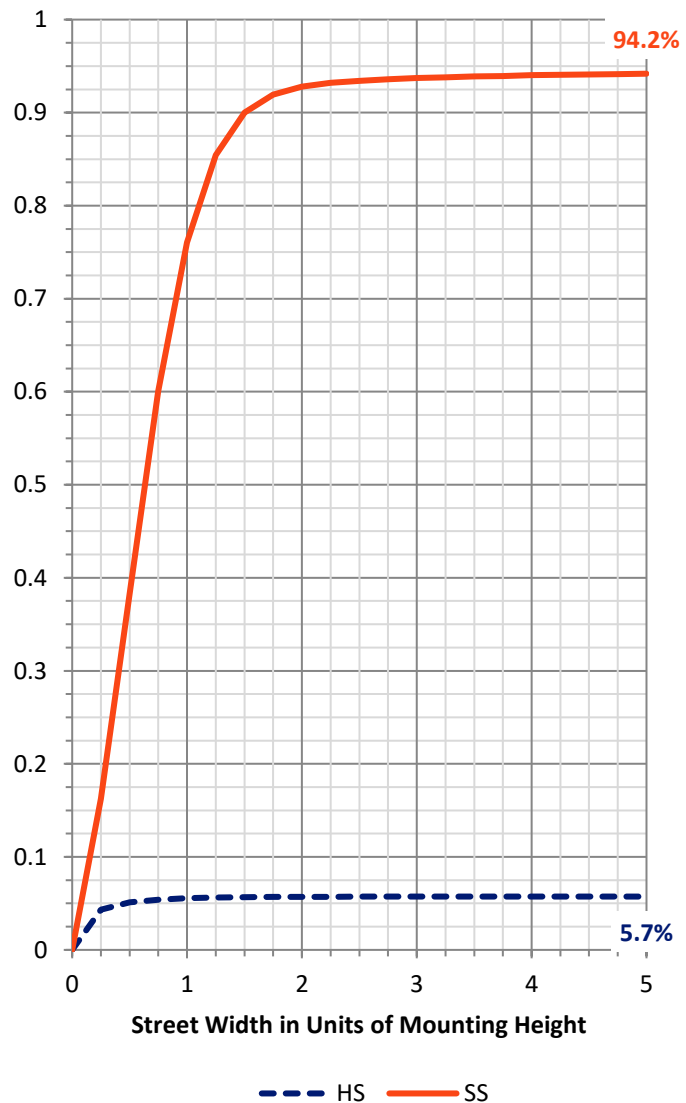
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2266.0	0.0	2266.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	37022.0	0.0	37022.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	39288.0	0.0	39288.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.1	1.0
10°-20°	1565.4	4.0
20°-30°	3349.6	8.5
30°-40°	6156.5	15.7
40°-50°	9438.0	24.0
50°-60°	9984.1	25.4
60°-70°	6519.9	16.6
70°-80°	1781.5	4.5
80°-90°	95.9	0.2
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°	39288.0	100.0
0°-180°	39288.0	100.0



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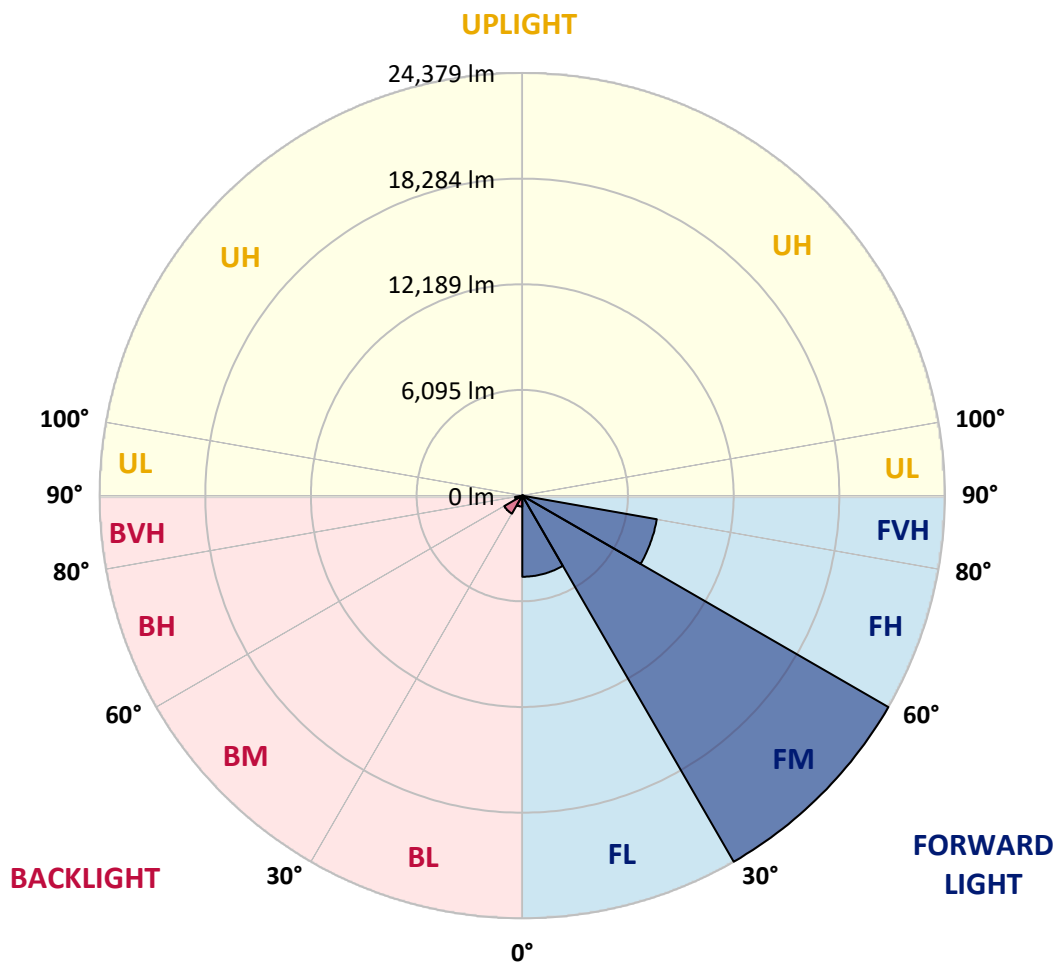
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4679.1	11.9			
FM (30°-60°)	24378.9	62.1			
FH (60°-80°)	7875.9	20.0			G4/12000
FVH (80°-90°)	88.0	0.2			G1/100
BL (0°-30°)	633.0	1.6	B2/1000		
BM (30°-60°)	1199.7	3.1	B2/2500		
BH (60°-80°)	425.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3
2.5°	4814.8	4771.4	4684.6	4654.7	4527.2	4329.2	4155.6	3922.3	3737.9	3718.9	3496.5
5°	6447.7	6350.1	6309.4	6114.1	5807.6	5520.0	5026.3	4652.0	4220.7	4188.2	3740.6
7.5°	8021.0	7885.4	7844.7	7660.2	7302.2	6849.2	6209.0	5528.2	4844.6	4782.2	4068.8
10°	9160.3	9179.3	9106.0	8984.0	8693.7	8232.6	7443.2	6512.8	5539.0	5460.4	4437.7
12.5°	9976.7	9974.0	9987.6	9984.9	9830.3	9480.3	8650.3	7578.9	6304.0	6149.3	4860.9
15°	10508.4	10516.5	10557.2	10698.3	10714.6	10497.6	9805.9	8598.8	7191.0	6998.4	5319.3
17.5°	11045.5	11102.5	11167.6	11300.5	11419.8	11333.0	10844.8	9662.1	7993.9	7850.1	5810.3
20°	11932.5	12011.2	11973.2	12054.6	12116.9	12125.1	11748.0	10644.0	8967.7	8726.3	6371.8
22.5°	13351.2	13348.4	13250.8	13104.3	12982.2	12976.8	12635.0	11653.1	9852.0	9618.7	6936.0
25°	15144.1	15152.3	14962.4	14544.7	14240.9	13869.2	13475.9	12537.4	10798.6	10511.1	7530.0
27.5°	17200.3	17148.7	16861.2	16286.1	15683.9	15049.2	14482.3	13565.4	11802.3	11563.6	8210.9
30°	19047.5	19028.5	18692.2	17989.6	17197.5	16560.1	15738.2	14853.9	13101.6	12808.6	8973.1
32.5°	20767.3	20794.4	20327.8	19600.9	18835.9	18100.8	17232.8	16085.4	14376.5	13961.5	9803.1
35°	22110.0	22137.1	21654.3	21049.4	20262.7	19652.4	18825.1	17398.3	15635.1	15285.2	10758.0
37.5°	22826.1	22861.3	22581.9	22126.2	21635.3	21328.8	20558.4	19088.2	17165.0	16953.4	11886.4
40°	22961.7	23002.4	22880.3	22758.3	22731.1	22950.9	22725.7	21079.2	19286.2	18955.3	13568.2
42.5°	22554.8	22609.1	22663.3	22934.6	23487.9	24293.6	25077.5	23780.9	22017.7	21572.9	15624.3
45°	21486.1	21480.7	21694.9	22397.5	23637.1	25356.9	27535.1	27163.4	25739.4	25210.4	18529.4
47.5°	19657.8	19630.7	20094.5	21095.5	23026.8	25552.2	29539.6	31270.2	30489.0	30000.8	21651.5
50°	16872.0	17005.0	17734.6	19131.6	21510.5	24960.9	30158.1	33963.8	34387.0	33868.9	24174.2
52.5°	13608.8	13603.4	14748.1	16644.2	19264.5	23658.8	29726.8	34452.1	35653.7	35257.7	25416.6
55°	10071.7	10142.2	11333.0	13245.4	16348.5	21282.6	28319.0	33950.2	36136.5	35857.2	26235.7
57°	7492.1	7616.8	8571.6	10595.2	13809.6	18930.9	26444.6	33052.4	36326.4	36174.5	26916.6
57.5°	6992.9	6998.4	7928.8	9767.9	13066.3	18027.6	25907.5	32678.0	36321.0	36236.9	27027.8
60°	4304.8	4440.4	5083.3	6602.3	9564.4	14070.0	22308.0	30527.0	36038.9	36161.0	27502.5
62.5°	2576.9	2633.9	3051.6	3979.3	6165.6	10269.7	18255.4	27773.8	35303.8	35675.4	27470.0
65°	1657.4	1670.9	1860.8	2408.7	3854.5	6941.4	14067.3	24136.2	33402.3	34085.9	26395.8
67.5°	1280.3	1302.0	1378.0	1581.4	2235.1	4323.8	9949.6	20254.6	30326.3	31207.8	23791.7
70°	1136.6	1147.4	1174.5	1239.6	1478.3	2441.3	6190.0	15822.3	25148.0	25397.6	18618.9
72.5°	927.7	957.5	1041.6	1063.3	1171.8	1524.5	3444.9	10619.6	16896.5	16958.8	10416.2
75°	718.8	724.2	849.0	911.4	987.4	1049.8	1538.0	5354.6	8115.9	7681.9	4014.6
77.5°	537.1	561.5	618.5	697.1	805.6	751.4	689.0	2018.1	2520.0	2473.8	1166.4
80°	344.5	358.1	431.3	523.5	626.6	491.0	387.9	591.3	553.4	569.6	279.4
82.5°	173.6	176.3	276.7	425.9	398.7	246.8	244.1	241.4	206.2	203.4	130.2
85°	19.0	40.7	179.0	244.1	179.0	81.4	113.9	111.2	108.5	111.2	76.0
87.5°	2.7	2.7	29.8	35.3	24.4	27.1	32.6	35.3	43.4	40.7	32.6
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°	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3
2.5°	3388.0	3279.5	3078.7	2886.1	2742.4	2650.2	2530.8	2487.4	2425.0	2416.9	2387.0
5°	3534.4	3328.3	2978.4	2701.7	2479.3	2311.1	2164.6	2042.5	1944.9	1923.2	1934.0
7.5°	3743.3	3436.8	2948.5	2571.5	2262.3	1974.7	1741.5	1597.7	1494.6	1456.6	1462.1
10°	3979.3	3580.6	2943.1	2433.2	1961.2	1608.5	1353.6	1226.1	1166.4	1144.7	1120.3
12.5°	4258.7	3746.0	2929.6	2218.9	1630.2	1283.0	1101.3	1025.3	968.4	952.1	952.1
15°	4573.4	3922.3	2864.4	1953.0	1323.7	1060.6	938.5	878.9	859.9	843.6	843.6
17.5°	4901.6	4095.9	2728.8	1624.8	1098.6	908.7	832.8	797.5	770.4	751.4	751.4
20°	5275.9	4266.8	2511.8	1334.6	927.7	811.1	751.4	710.7	689.0	672.7	667.3
22.5°	5631.2	4405.2	2235.1	1095.9	808.3	729.7	675.4	632.0	610.3	602.2	602.2
25°	6000.2	4489.3	1901.5	906.0	737.8	661.9	602.2	566.9	547.9	542.5	539.8
27.5°	6358.2	4538.1	1608.5	792.1	672.7	599.5	542.5	515.4	496.4	491.0	493.7
30°	6792.2	4546.2	1323.7	710.7	615.7	539.8	488.3	463.8	453.0	447.6	444.9
32.5°	7231.6	4535.4	1112.1	661.9	561.5	488.3	444.9	425.9	417.7	409.6	409.6
35°	7725.3	4478.4	946.7	613.0	510.0	444.9	406.9	390.6	379.8	371.6	368.9
37.5°	8338.4	4448.6	851.7	558.8	463.8	404.2	368.9	352.6	344.5	333.6	330.9
40°	9304.0	4581.5	821.9	510.0	417.7	366.2	333.6	314.7	303.8	293.0	290.2
42.5°	10508.4	4814.8	773.1	461.1	377.0	330.9	298.4	276.7	257.7	244.1	238.7
45°	12068.1	5121.3	697.1	409.6	341.8	293.0	263.1	236.0	211.6	200.7	198.0
47.5°	13703.8	5417.0	629.3	368.9	303.8	260.4	227.9	198.0	176.3	168.2	165.5
50°	14707.4	5476.6	585.9	322.8	265.8	225.1	192.6	165.5	151.9	143.8	143.8
52.5°	15165.8	5381.7	526.2	282.1	230.6	198.0	165.5	143.8	135.6	130.2	127.5
55°	15485.9	5235.2	447.6	244.1	198.0	168.2	146.5	130.2	119.4	113.9	111.2
57°	15673.1	5037.2	387.9	214.3	170.9	146.5	130.2	116.6	105.8	94.9	94.9
57.5°	15681.2	4961.2	371.6	211.6	162.8	141.1	127.5	113.9	100.4	89.5	86.8
60°	15439.8	4440.4	298.4	179.0	130.2	119.4	105.8	89.5	70.5	59.7	57.0
62.5°	14664.0	3778.6	246.8	151.9	105.8	92.2	76.0	67.8	48.8	35.3	35.3
65°	13489.5	3065.2	211.6	122.1	86.8	67.8	51.5	48.8	29.8	16.3	13.6
67.5°	11791.4	2387.0	179.0	100.4	73.2	48.8	35.3	32.6	16.3	5.4	0.0
70°	8984.0	1627.5	149.2	81.4	54.3	35.3	24.4	19.0	10.9	2.7	0.0
72.5°	5178.3	895.1	124.8	62.4	40.7	27.1	19.0	10.9	10.9	0.0	0.0
75°	1850.0	385.2	94.9	46.1	32.6	21.7	13.6	5.4	8.1	2.7	0.0
77.5°	588.6	206.2	62.4	35.3	27.1	16.3	10.9	5.4	5.4	2.7	0.0
80°	173.6	108.5	38.0	29.8	19.0	13.6	8.1	2.7	5.4	2.7	0.0
82.5°	94.9	54.3	29.8	21.7	19.0	10.9	8.1	2.7	2.7	2.7	0.0
85°	48.8	32.6	24.4	21.7	19.0	10.9	8.1	2.7	0.0	2.7	2.7
87.5°	27.1	24.4	24.4	21.7	19.0	13.6	8.1	2.7	0.0	0.0	0.0
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)