

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: P459521

Luminaire Tested: **GALN-SA9C-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459521
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-SA9C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58877 lumens
Efficiency: N/A
Efficacy: 122.4 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

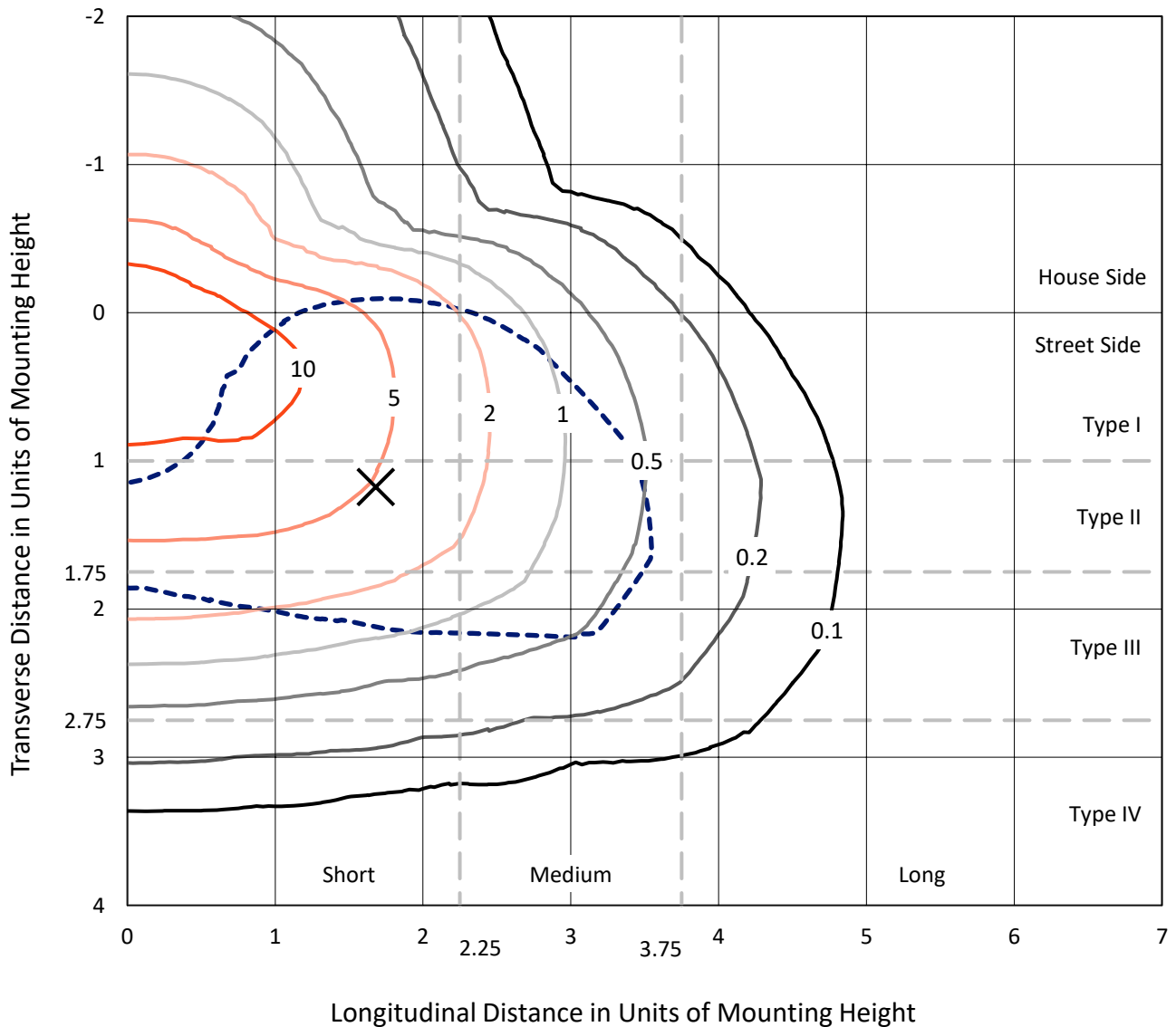
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

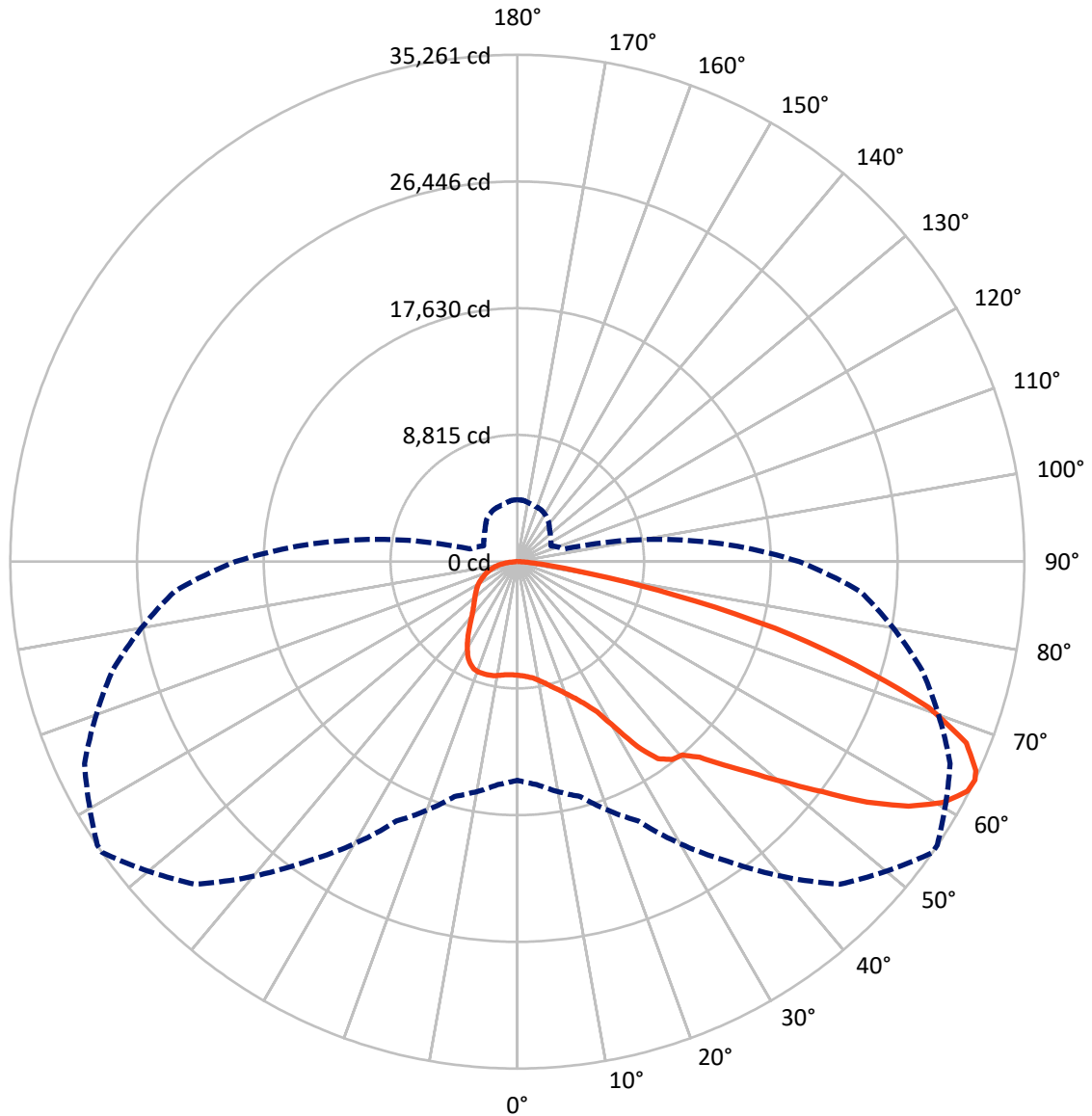
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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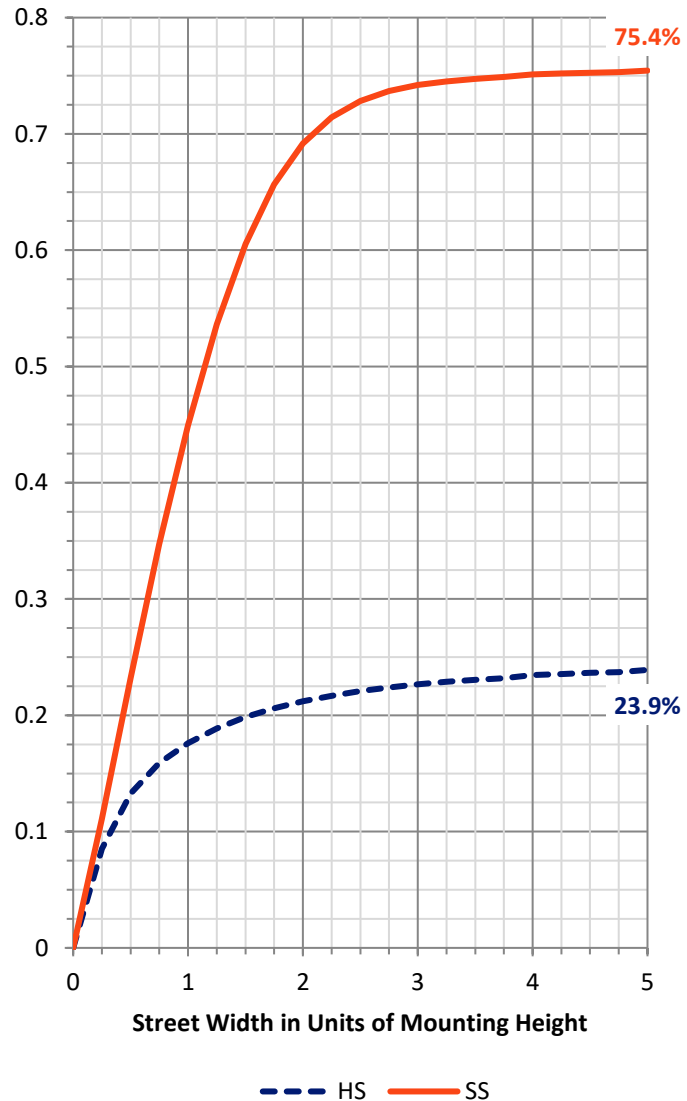
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14302.4	0.0	14302.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	44574.6	0.0	44574.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	58877.0	0.0	58877.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.4	1.3
10°-20°	2424.6	4.1
20°-30°	4316.4	7.3
30°-40°	6641.2	11.3
40°-50°	9414.5	16.0
50°-60°	13627.2	23.1
60°-70°	14102.7	24.0
70°-80°	6604.3	11.2
80°-90°	977.7	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°	58877.0	100.0
0°-180°	58877.0	100.0



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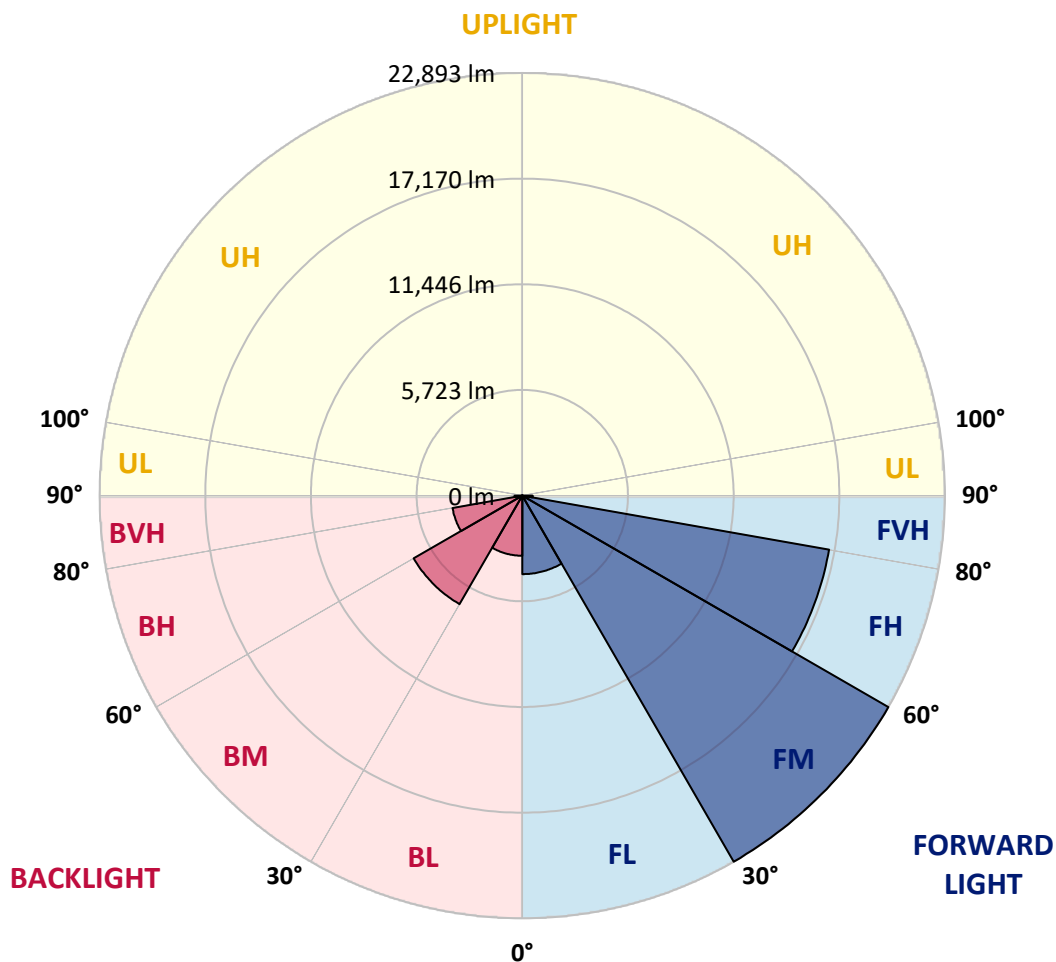
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4251.9	7.2			
FM	(30°-60°)	22893.0	38.9			
FH	(60°-80°)	16870.0	28.7			G5
FVH	(80°-90°)	559.8	1.0			G4/750
BL	(0°-30°)	3257.5	5.5	B4/5000		
BM	(30°-60°)	6789.9	11.5	B4/8500		
BH	(60°-80°)	3837.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	417.9	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°	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5
2.5°	7988.1	7984.8	7994.7	7984.8	7991.4	7968.4	7958.6	7965.2	7955.3	7938.9	7909.4
5°	8086.6	8083.3	8086.6	8073.5	8080.0	8066.9	8043.9	8050.5	8034.1	7998.0	7955.3
7.5°	8254.0	8240.8	8240.8	8237.6	8224.4	8204.7	8188.3	8181.8	8165.3	8119.4	8053.8
10°	8470.6	8470.6	8473.8	8447.6	8464.0	8427.9	8411.5	8408.2	8352.4	8293.3	8201.5
12.5°	8756.1	8772.5	8762.7	8749.5	8743.0	8729.8	8674.0	8687.2	8624.8	8523.1	8411.5
15°	9110.5	9136.8	9120.4	9113.8	9097.4	9048.2	9025.2	9015.4	8933.3	8785.6	8637.9
17.5°	9579.8	9547.0	9533.9	9517.5	9448.6	9412.5	9373.1	9366.5	9294.3	9120.4	8890.6
20°	9990.1	10036.0	10009.8	9993.4	9924.4	9855.5	9826.0	9816.1	9753.8	9563.4	9195.9
22.5°	10479.1	10488.9	10498.8	10459.4	10426.6	10374.1	10321.6	10305.1	10282.2	10085.3	9635.6
25°	11000.9	11040.3	11007.5	10968.1	10928.7	10925.4	10974.6	10968.1	10958.2	10767.9	10219.8
27.5°	11850.9	11887.0	11896.9	11854.2	11703.2	11716.4	11827.9	11864.0	12015.0	11699.9	10971.4
30°	12330.1	12366.2	12448.2	12609.0	12848.6	13058.7	13327.8	13409.8	13554.2	12960.2	11864.0
32.5°	12625.4	12638.6	12786.3	13084.9	13803.6	14588.0	15319.9	15349.4	15441.3	14607.7	12681.2
35°	13091.5	13101.3	13219.5	13547.7	14391.1	15697.3	16829.5	16865.6	16790.2	15119.7	13061.9
37.5°	13665.8	13692.1	13767.5	14039.9	15047.5	16626.1	17456.4	17430.1	16760.6	15526.6	13734.7
40°	14502.7	14502.7	14414.1	14781.6	15740.0	17157.7	17676.3	17630.3	17453.1	16704.8	14758.7
42.5°	15241.1	15228.0	15438.0	15687.4	16606.4	17978.2	18598.5	18674.0	18966.1	18185.0	15923.7
45°	16202.7	16261.8	16379.9	16832.8	18079.9	19379.6	20180.4	20252.6	20666.1	19927.7	17285.7
47.5°	17174.1	17193.8	17564.7	18168.6	19904.7	21279.8	21936.2	22054.3	22431.7	21965.7	18752.7
50°	17863.3	18050.4	18644.4	19596.2	21785.2	23596.8	24108.8	24249.9	24916.1	24184.3	20462.6
52.5°	18591.9	18775.7	19501.0	20951.6	23944.7	25966.3	26596.5	26691.6	27384.1	26429.1	22211.9
55°	19215.5	19386.1	20209.9	22152.8	25664.4	28385.1	29527.2	29415.6	29747.1	28158.6	23560.7
57.5°	19317.2	19455.1	20492.1	22920.7	26957.5	30459.2	32096.9	32162.6	31778.6	29451.7	24673.3
60°	18529.6	18811.8	20003.1	22838.7	27538.4	31903.3	34013.5	34059.5	32969.9	30114.6	25116.3
62.5°	17134.8	17105.2	18546.0	21519.4	26724.5	32231.5	35142.5	35093.3	33435.9	29796.3	24686.4
64°	15208.3	15562.7	16908.3	19898.1	25411.7	31726.1	35260.7	35234.4	33212.8	29133.4	23954.5
65°	14033.4	14013.7	15342.8	18572.2	24105.5	30964.7	35050.6	35014.5	32746.7	28539.3	23386.8
67.5°	10131.2	10177.1	11489.9	14332.0	19596.2	27988.0	33682.1	33547.5	30908.9	26570.2	21227.3
70°	6137.1	6163.4	7193.9	9507.6	14066.2	22625.4	30360.8	30367.4	28096.3	23629.6	18066.8
72.5°	3232.7	3301.6	3715.1	5398.7	8542.8	15874.5	24630.6	25214.8	24121.9	20167.2	14273.0
75°	1798.5	1808.3	2100.4	2661.6	4358.4	8884.1	18513.2	18680.5	19097.3	16232.2	10554.6
77.5°	1371.8	1391.5	1483.4	1719.7	2372.8	4118.8	11204.4	12044.5	13459.0	11444.0	6022.3
80°	1112.6	1132.3	1211.0	1352.1	1578.6	1952.7	5205.1	5658.0	7203.8	5080.4	2349.8
82.5°	866.4	853.3	955.0	1046.9	1148.7	1155.2	2136.5	2363.0	2934.0	2185.7	1017.4
85°	643.3	643.3	725.3	705.6	741.7	676.1	941.9	1040.4	1174.9	928.8	472.6
87.5°	256.0	282.2	475.9	426.6	331.5	265.8	347.9	367.6	407.0	364.3	196.9
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°	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5	7899.5
2.5°	7912.6	7922.5	7899.5	7883.1	7876.5	7866.7	7856.9	7860.1	7873.3	7886.4	7883.1
5°	7952.0	7955.3	7915.9	7896.2	7883.1	7870.0	7870.0	7879.8	7906.1	7925.8	7925.8
7.5°	8050.5	8050.5	7994.7	7958.6	7938.9	7915.9	7909.4	7912.6	7932.3	7958.6	7961.9
10°	8204.7	8191.6	8119.4	8063.6	8027.5	7971.7	7922.5	7896.2	7906.1	7922.5	7922.5
12.5°	8391.8	8355.7	8263.8	8188.3	8099.7	7994.7	7893.0	7840.4	7837.2	7853.6	7847.0
15°	8592.0	8552.6	8424.6	8286.8	8132.5	7978.3	7856.9	7781.4	7722.3	7705.9	7742.0
17.5°	8825.0	8743.0	8565.7	8375.4	8145.7	7945.5	7755.1	7600.9	7495.8	7466.3	7476.2
20°	9107.3	8999.0	8759.4	8460.7	8135.8	7827.3	7531.9	7325.2	7154.5	7102.0	7108.6
22.5°	9497.8	9310.7	8959.6	8503.4	8053.8	7604.1	7193.9	6924.8	6718.0	6636.0	6685.2
25°	9940.9	9737.4	9149.9	8493.5	7840.4	7246.4	6793.5	6442.4	6255.3	6133.9	6160.1
27.5°	10551.3	10190.3	9353.4	8404.9	7535.2	6809.9	6284.8	5953.4	5782.7	5720.3	5749.9
30°	11332.4	10777.7	9573.3	8165.3	7052.8	6258.6	5772.8	5556.2	5454.5	5375.7	5402.0
32.5°	11896.9	11191.3	9622.5	7761.7	6531.0	5756.4	5425.0	5264.2	5152.6	5077.1	5093.5
35°	12300.5	11542.4	9599.5	7266.1	5986.2	5342.9	5149.3	5018.0	4837.5	4673.4	4643.9
37.5°	12842.0	11982.2	9432.2	6724.6	5447.9	5064.0	4926.1	4683.3	4424.0	4204.1	4194.3
40°	13672.4	12497.4	9074.4	6087.9	4988.5	4857.2	4689.8	4374.8	4095.8	3918.6	3905.5
42.5°	14528.9	12973.3	8588.7	5418.4	4611.1	4640.6	4437.1	4125.3	3954.7	3839.8	3826.7
45°	15575.9	13488.6	8063.6	4837.5	4332.1	4437.1	4217.2	4036.7	3935.0	3859.5	3839.8
47.5°	16708.1	14017.0	7472.9	4315.7	4095.8	4250.1	4125.3	4043.3	3987.5	3935.0	3912.0
50°	17929.0	14607.7	6918.2	3895.6	3882.5	4056.4	4115.5	4086.0	4053.1	4036.7	4017.0
52.5°	19268.0	15211.6	6452.2	3600.2	3695.4	3918.6	4118.8	4141.7	4141.7	4131.9	4118.8
55°	20173.8	15631.7	5979.6	3360.7	3505.1	3807.0	4112.2	4200.8	4233.6	4220.5	4207.4
57.5°	20843.3	15861.4	5385.6	3153.9	3344.2	3698.7	4076.1	4207.4	4240.2	4256.6	4250.1
60°	20981.1	15648.1	4607.8	2937.3	3170.3	3541.2	3944.8	4108.9	4151.6	4253.3	4263.2
62.5°	20360.9	14991.7	3833.3	2724.0	2957.0	3301.6	3767.6	3997.3	4082.7	4240.2	4256.6
64°	19599.5	14256.5	3403.3	2589.4	2819.1	3167.0	3679.0	3967.8	4079.4	4289.4	4302.6
65°	19041.5	13721.6	3134.2	2504.1	2730.5	3078.4	3629.8	3977.7	4108.9	4364.9	4384.6
67.5°	16987.1	11880.5	2592.7	2303.9	2520.5	2927.4	3639.6	4059.7	4102.4	4394.5	4391.2
70°	14056.3	9458.4	2172.6	2120.1	2317.0	2806.0	3600.2	3928.4	3931.7	4125.3	4079.4
72.5°	10525.0	6990.4	1883.8	1929.8	2090.6	2517.2	3400.0	3751.2	3695.4	3721.7	3675.7
75°	7230.0	4624.2	1621.3	1726.3	1854.3	2225.1	3117.8	3406.6	3318.0	3285.2	3252.4
77.5°	3859.5	2556.6	1348.9	1526.1	1611.4	1923.2	2720.7	2999.7	2907.8	2779.8	2737.1
80°	1562.2	1204.5	1086.3	1263.5	1312.8	1549.1	2264.5	2438.4	2369.5	2146.4	2074.2
82.5°	784.4	722.0	853.3	994.4	997.7	1106.0	1683.6	1847.7	1693.5	1421.1	1358.7
85°	410.2	423.4	587.5	699.0	617.0	597.3	1010.8	1119.1	1027.2	892.7	804.1
87.5°	147.7	170.7	308.5	305.2	216.6	114.9	223.2	108.3	59.1	36.1	45.9
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)