

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: P532555

Luminaire Tested: **GALN-SA7D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25257 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

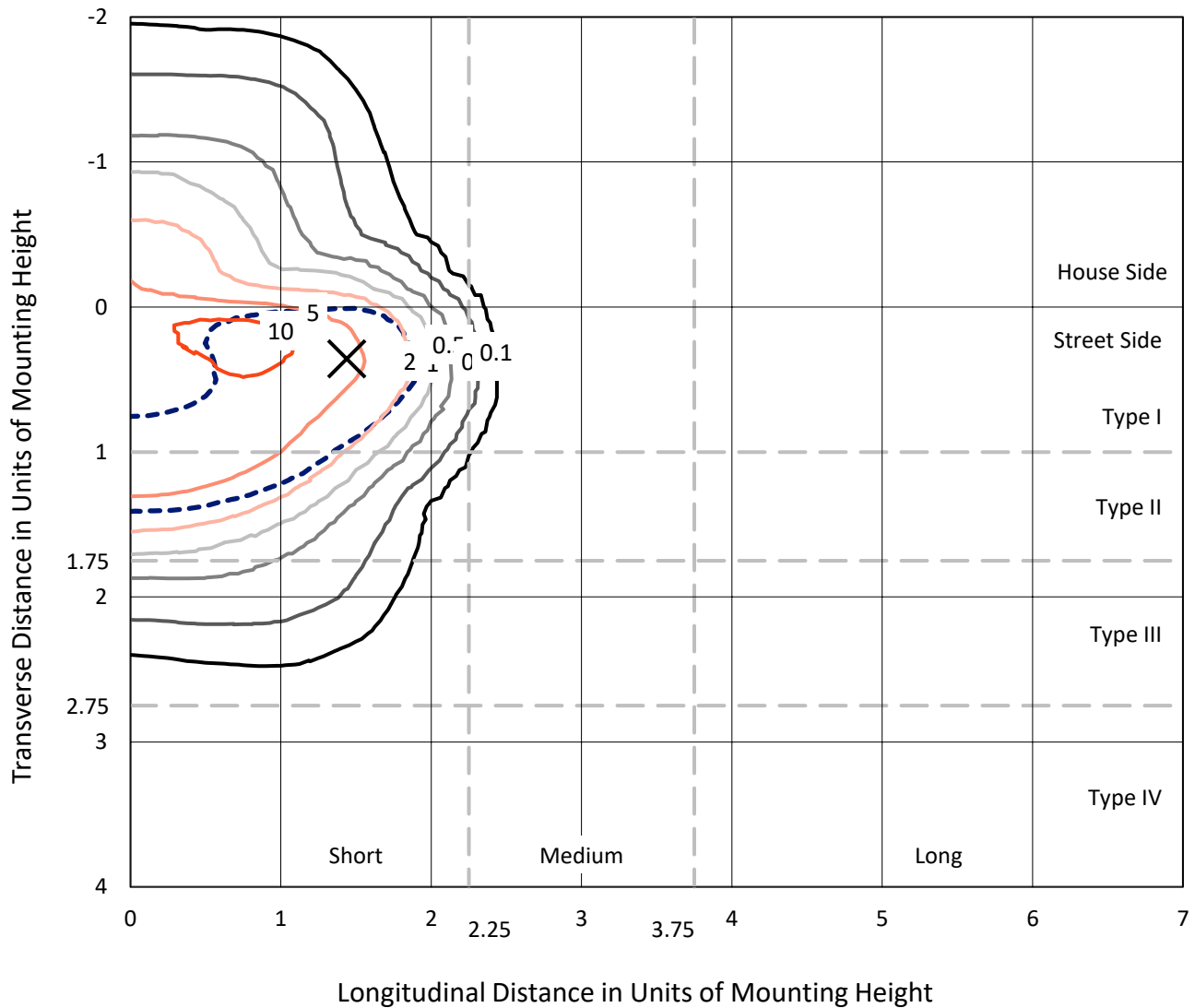
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

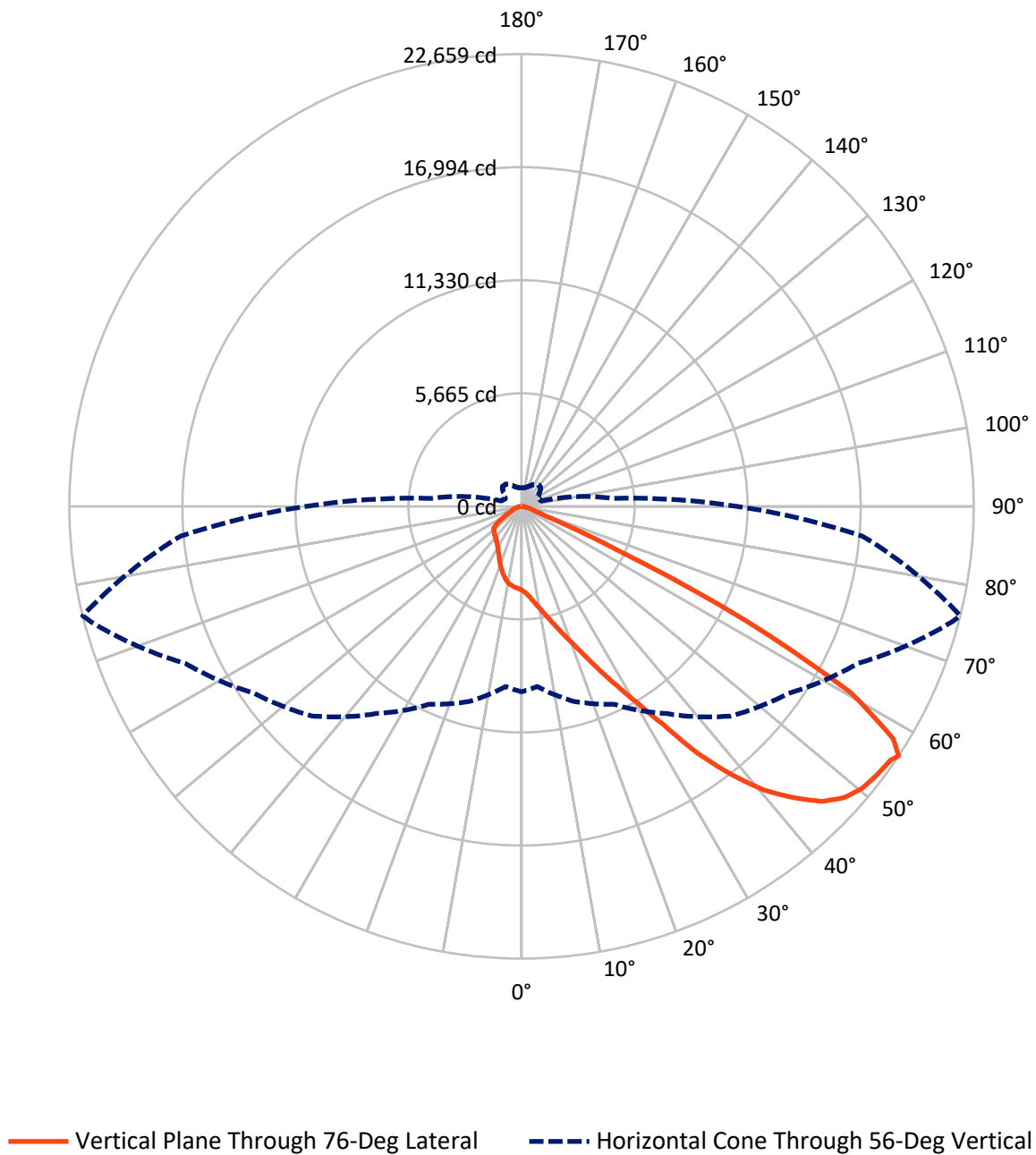
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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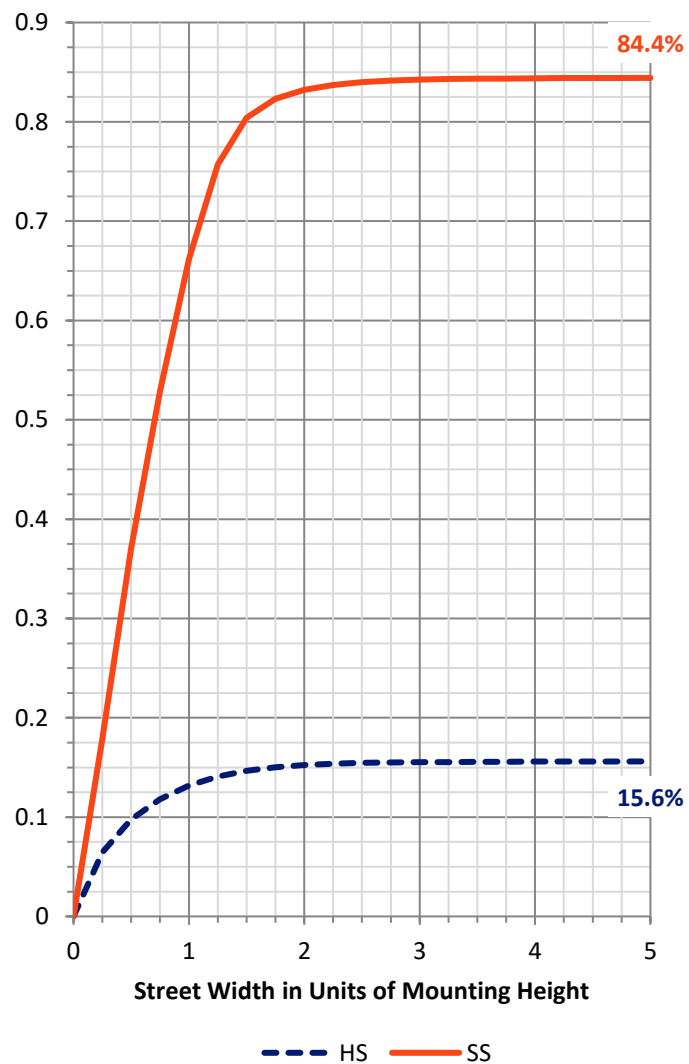
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3967.7	0.0	3967.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	21289.3	0.0	21289.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	25257.0	0.0	25257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	1.7
10°-20°	1360.6	5.4
20°-30°	2467.0	9.8
30°-40°	4254.5	16.8
40°-50°	6911.6	27.4
50°-60°	7285.1	28.8
60°-70°	2225.9	8.8
70°-80°	285.4	1.1
80°-90°	43.4	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°	25257.0	100.0
0°-180°	25257.0	100.0

Coefficient of Utilization



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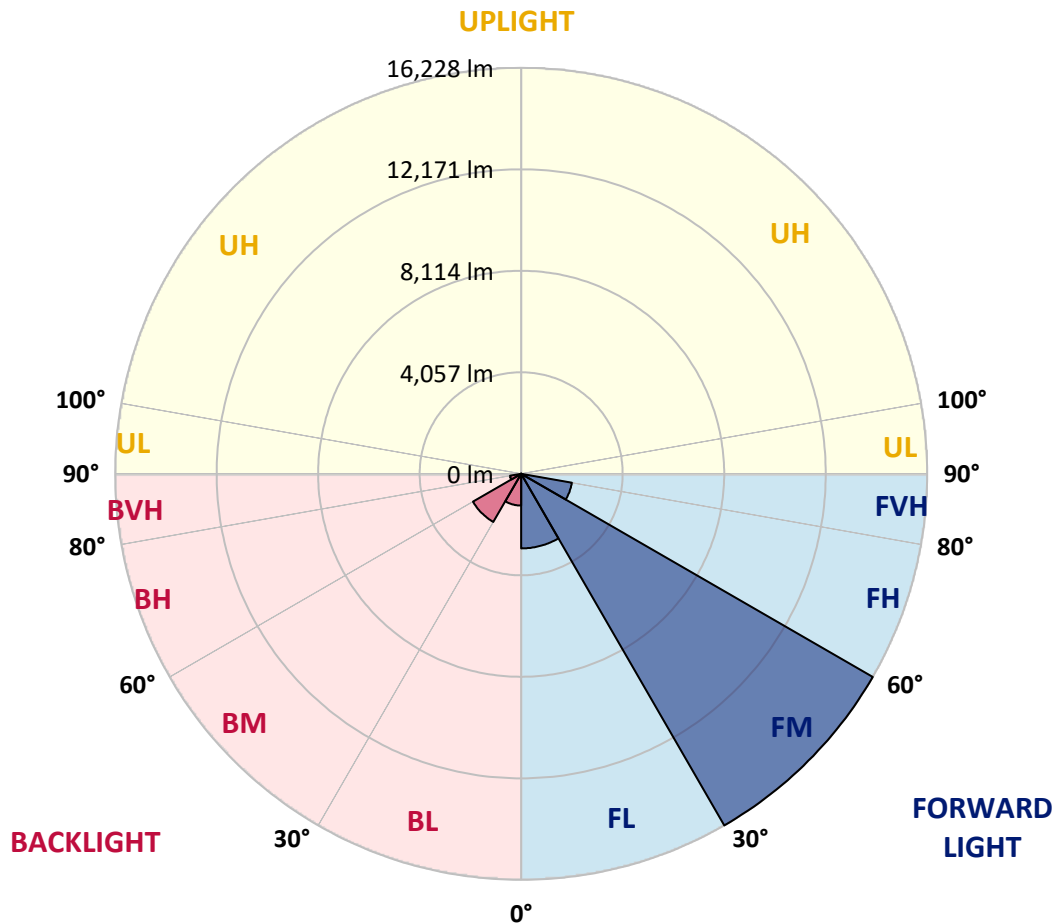
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2981.8	11.8			
FM	(30°-60°)	16227.6	64.2			
FH	(60°-80°)	2058.6	8.2			G2/5000
FVH	(80°-90°)	21.2	0.1			G1/100
BL	(0°-30°)	1269.3	5.0	B3/2500		
BM	(30°-60°)	2223.7	8.8	B2/2500		
BH	(60°-80°)	452.7	1.8	B1/500		G1/500
BVH	(80°-90°)	22.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1
2.5°	4841.9	4730.2	4734.8	4725.5	4711.5	4660.3	4506.7	4483.4	4381.0	4353.0	4259.9
5°	5423.8	5326.1	5381.9	5298.1	5219.0	5172.4	4921.0	4804.6	4641.7	4581.2	4450.8
7.5°	5787.0	5740.4	5721.8	5726.5	5652.0	5535.6	5423.8	5167.8	4949.0	4902.4	4627.7
10°	5963.9	5936.0	5963.9	5949.9	5982.5	5996.5	5801.0	5647.3	5326.1	5246.9	4818.6
12.5°	6005.8	6061.7	6085.0	6145.5	6224.6	6359.6	6345.7	6136.2	5707.8	5656.6	5111.9
15°	6108.2	6154.8	6131.5	6229.3	6378.3	6606.4	6727.4	6694.8	6233.9	6140.8	5451.8
17.5°	6201.3	6117.5	6196.7	6392.2	6541.2	6890.4	7183.7	7318.7	6806.6	6699.5	5763.7
20°	6327.0	6303.8	6289.8	6387.6	6652.9	7118.5	7700.5	7947.2	7449.1	7337.3	6210.7
22.5°	6708.8	6713.5	6704.2	6559.8	6750.7	7276.8	8152.1	8762.0	8217.2	8124.1	6718.1
25°	7211.6	7151.1	7104.5	6988.2	6964.9	7421.1	8608.3	9758.3	9139.1	9073.9	7267.5
27.5°	7742.4	7742.4	7602.7	7495.6	7346.6	7779.6	9027.3	10726.7	10251.8	10163.3	7747.0
30°	8319.7	8352.3	8333.6	8105.5	8012.4	8170.7	9455.7	11965.1	11527.4	11415.7	8538.5
32.5°	9171.7	9101.8	9181.0	8990.1	8715.4	8855.1	10130.7	13073.1	13184.8	13026.6	9576.7
35°	10298.3	10256.4	10205.2	9893.3	9567.4	9679.1	11085.1	14437.2	15265.9	15186.8	10624.2
37.5°	11308.6	11285.3	11243.4	11029.3	10652.2	10787.2	12169.9	15857.2	17295.8	17035.1	12104.7
40°	12370.1	12495.8	12360.8	12169.9	11825.4	12123.4	13445.6	16699.9	19004.4	18687.8	13236.1
42.5°	13808.7	13710.9	13771.5	13422.3	13236.1	13562.0	14725.9	17542.5	20331.3	19954.2	14437.2
45°	15340.4	15345.1	15182.1	15070.4	14586.2	14940.0	15512.7	18008.1	21388.1	21094.8	15345.1
47.5°	16322.8	16318.1	16495.0	16671.9	16173.8	15824.6	16048.1	18450.4	21932.8	21797.8	15675.6
50°	16169.1	16215.7	16443.8	17104.9	17365.6	16895.4	16550.9	18320.0	22179.6	22165.6	15959.6
52.5°	14064.8	14218.4	14600.2	15554.6	16867.5	17449.4	17077.0	18562.1	22300.6	22323.9	16383.3
55°	10708.0	10791.8	11518.1	12677.4	14129.9	16122.6	16867.5	18753.0	22393.7	22435.7	16895.4
56°	9288.1	9064.6	10112.1	10936.2	12672.7	14851.6	16336.7	18604.0	22337.9	22659.1	17151.5
57.5°	7011.4	6862.5	7709.8	8738.7	10410.1	12710.0	14688.6	17901.0	21960.8	21956.1	16783.7
60°	4264.6	4115.6	4767.4	5372.6	6308.4	7826.2	9925.9	14255.6	18566.8	18957.9	13589.9
62.5°	2537.3	2630.5	3272.9	3640.7	3943.3	4101.6	5135.2	8473.3	12388.7	12668.1	8431.4
65°	1690.0	1722.6	2206.8	2812.0	2947.0	2346.5	2090.4	3431.2	5372.6	5200.4	3477.8
67.5°	1042.9	1117.4	1480.5	2113.7	2341.8	1713.3	991.7	1280.3	1480.5	1480.5	1005.6
70°	633.2	670.4	987.0	1438.6	1606.2	1103.4	721.6	721.6	712.3	698.3	600.6
72.5°	302.6	325.9	502.8	740.3	754.2	582.0	558.7	609.9	595.9	591.3	498.2
75°	130.4	139.7	176.9	232.8	265.4	246.8	339.9	437.6	451.6	437.6	358.5
77.5°	41.9	46.6	65.2	83.8	88.5	107.1	144.3	181.6	209.5	195.5	176.9
80°	4.7	9.3	18.6	41.9	65.2	83.8	107.1	121.0	135.0	135.0	125.7
82.5°	4.7	4.7	18.6	37.2	60.5	79.1	102.4	116.4	135.0	139.7	130.4
85°	0.0	4.7	14.0	32.6	51.2	51.2	46.6	46.6	32.6	32.6	32.6
87.5°	0.0	0.0	4.7	4.7	4.7	9.3	9.3	9.3	9.3	9.3	9.3
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°	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1	4204.1
2.5°	4241.3	4232.0	4106.3	4027.2	3985.2	3901.4	3850.2	3813.0	3785.1	3752.5	3757.1
5°	4297.2	4264.6	4055.1	3910.8	3738.5	3645.4	3566.2	3501.1	3459.2	3449.8	3431.2
7.5°	4455.5	4283.2	3966.6	3705.9	3487.1	3394.0	3324.1	3282.2	3300.9	3259.0	3291.6
10°	4576.5	4320.5	3859.5	3482.4	3263.6	3193.8	3156.5	3189.1	3235.7	3217.1	3193.8
12.5°	4725.5	4357.7	3687.3	3268.3	3063.4	3012.2	3077.4	3137.9	3231.0	3268.3	3221.7
15°	4893.1	4399.6	3468.5	3021.5	2891.2	2933.1	3044.8	3151.9	3245.0	3291.6	3319.5
17.5°	5098.0	4385.6	3254.3	2826.0	2728.2	2849.3	2984.3	3082.1	3221.7	3291.6	3272.9
20°	5288.8	4339.1	3016.9	2630.5	2635.1	2746.8	2858.6	3016.9	3091.4	3184.5	3151.9
22.5°	5470.4	4255.3	2770.1	2495.4	2495.4	2667.7	2723.6	2826.0	2891.2	2937.7	2933.1
25°	5726.5	4097.0	2565.3	2365.1	2420.9	2532.7	2579.2	2611.8	2583.9	2621.1	2625.8
27.5°	5908.0	3934.0	2397.7	2248.7	2351.1	2434.9	2420.9	2402.3	2337.1	2285.9	2318.5
30°	6103.6	3743.2	2253.3	2169.5	2225.4	2299.9	2244.0	2188.2	2085.7	2001.9	2006.6
32.5°	6382.9	3654.7	2127.6	2076.4	2150.9	2160.2	2099.7	2015.9	1913.5	1834.3	1829.7
35°	6904.4	3598.8	2020.6	2015.9	2029.9	2034.5	1974.0	1871.6	1829.7	1764.5	1787.8
37.5°	7425.8	3570.9	1946.1	1927.4	1922.8	1927.4	1857.6	1759.8	1839.0	1834.3	1843.6
40°	8091.5	3696.6	1839.0	1815.7	1820.4	1820.4	1731.9	1704.0	1843.6	1857.6	1862.3
42.5°	8766.6	3854.9	1769.2	1694.7	1713.3	1713.3	1666.7	1634.1	1731.9	1638.8	1624.8
45°	9353.2	4087.7	1694.7	1573.6	1620.2	1643.4	1629.5	1573.6	1513.1	1354.8	1354.8
47.5°	9544.1	4292.5	1606.2	1457.2	1494.5	1596.9	1555.0	1438.6	1331.5	1201.2	1191.9
50°	9879.3	4516.0	1536.4	1322.2	1401.4	1527.1	1485.2	1368.8	1247.7	1154.6	1159.3
52.5°	10223.8	4772.1	1406.0	1163.9	1261.7	1471.2	1471.2	1340.8	1154.6	1089.4	1080.1
55°	10740.6	4762.7	1173.2	954.4	1126.7	1387.4	1410.7	1201.2	1033.6	982.3	982.3
56°	10815.1	4548.6	1056.8	893.9	1066.1	1364.1	1368.8	1163.9	987.0	931.1	931.1
57.5°	10256.4	4106.3	926.5	819.4	991.7	1322.2	1326.9	1131.3	949.8	870.6	861.3
60°	7891.4	2779.4	772.8	730.9	898.5	1191.9	1215.1	1028.9	833.4	772.8	768.2
62.5°	4455.5	1541.0	679.7	661.1	772.8	1014.9	1084.8	898.5	707.7	675.1	684.4
65°	2034.5	847.3	572.6	535.4	623.9	782.2	875.3	740.3	582.0	544.7	544.7
67.5°	744.9	577.3	488.8	423.7	437.6	507.5	568.0	479.5	386.4	330.6	344.5
70°	530.7	484.2	428.3	367.8	339.9	330.6	325.9	270.0	190.9	149.0	158.3
72.5°	428.3	400.4	358.5	311.9	265.4	223.5	190.9	139.7	88.5	60.5	55.9
75°	307.3	293.3	260.7	223.5	186.2	158.3	130.4	88.5	46.6	23.3	23.3
77.5°	158.3	158.3	153.6	139.7	116.4	93.1	74.5	51.2	27.9	9.3	9.3
80°	121.0	130.4	135.0	121.0	107.1	83.8	60.5	37.2	18.6	4.7	4.7
82.5°	116.4	135.0	144.3	125.7	107.1	79.1	60.5	37.2	18.6	4.7	4.7
85°	27.9	27.9	41.9	46.6	60.5	65.2	51.2	32.6	14.0	4.7	4.7
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	4.7	4.7	4.7	4.7	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)