

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: P459086

Luminaire Tested: **GALN-SA5D-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459086
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-SA5D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35788 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

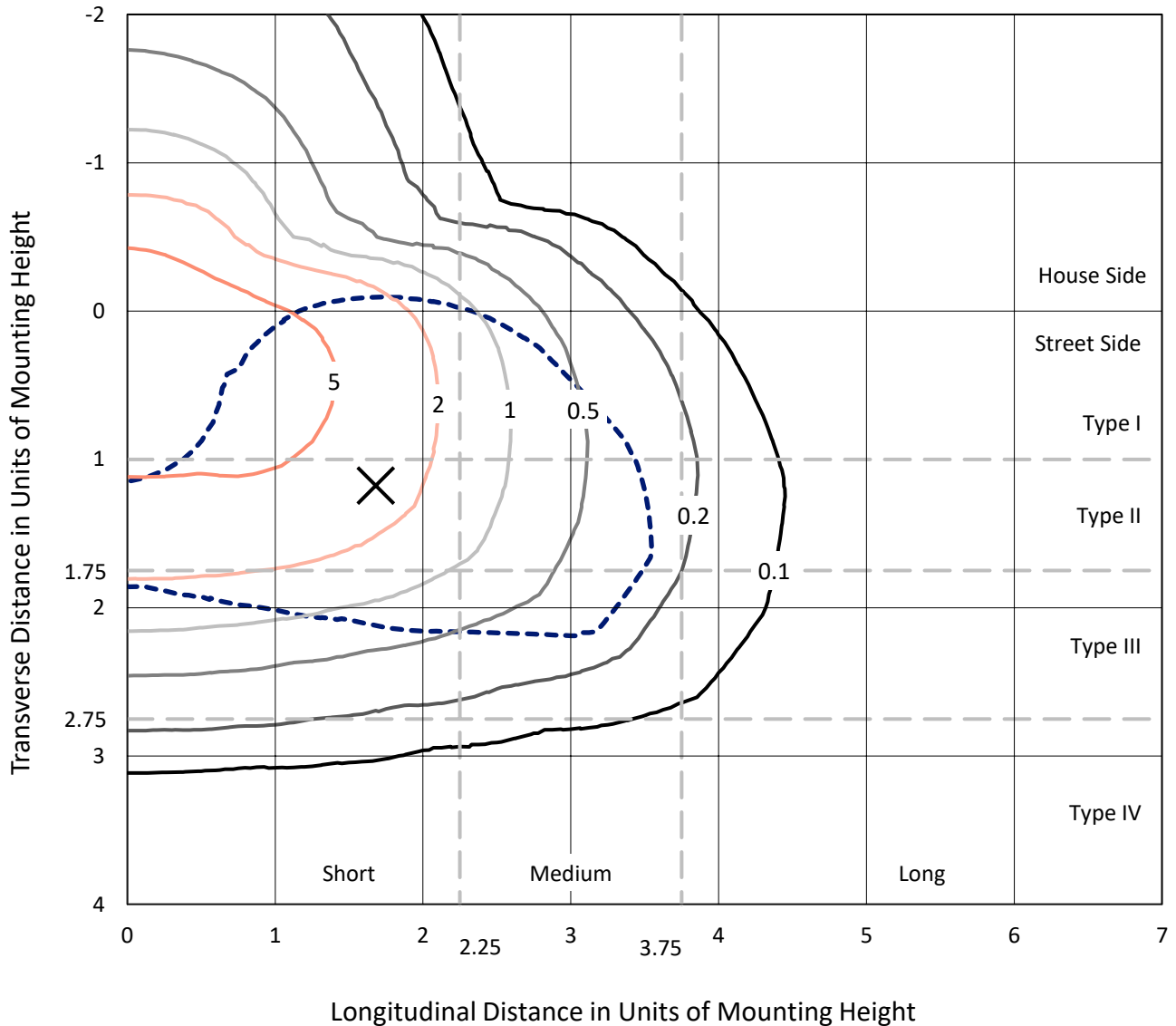
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

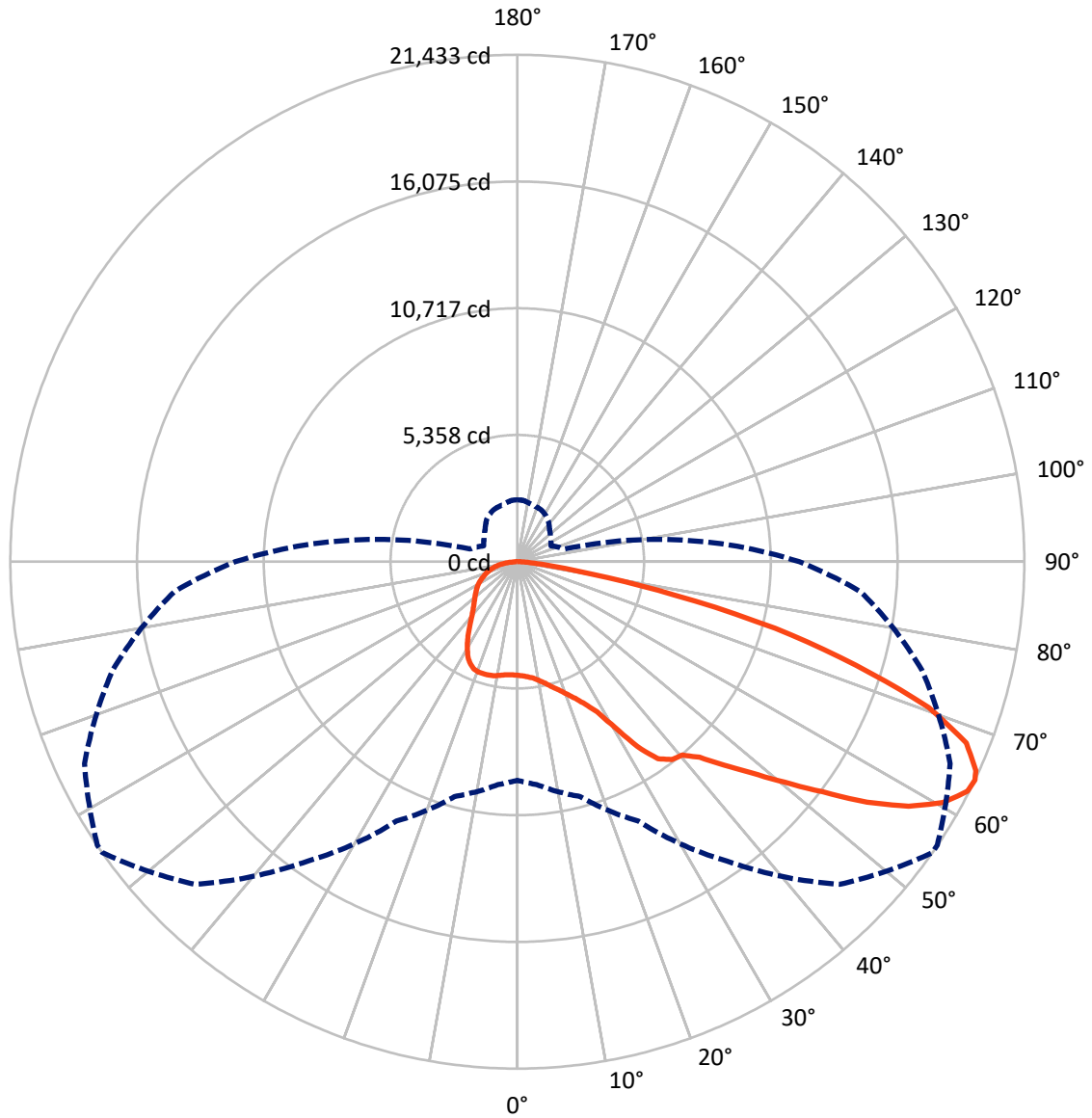
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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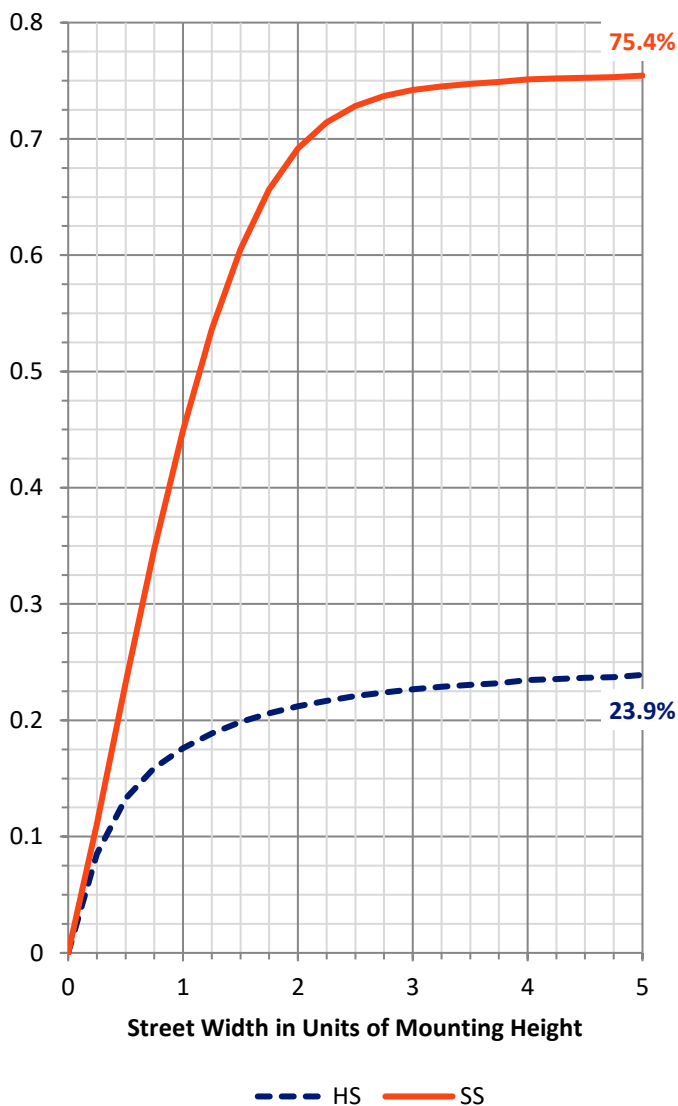
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8693.6	0.0	8693.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	27094.4	0.0	27094.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	35788.0	0.0	35788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	1.3
10°-20°	1473.8	4.1
20°-30°	2623.7	7.3
30°-40°	4036.8	11.3
40°-50°	5722.5	16.0
50°-60°	8283.2	23.1
60°-70°	8572.2	24.0
70°-80°	4014.4	11.2
80°-90°	594.3	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°	35788.0	100.0
0°-180°	35788.0	100.0

Coefficient of Utilization



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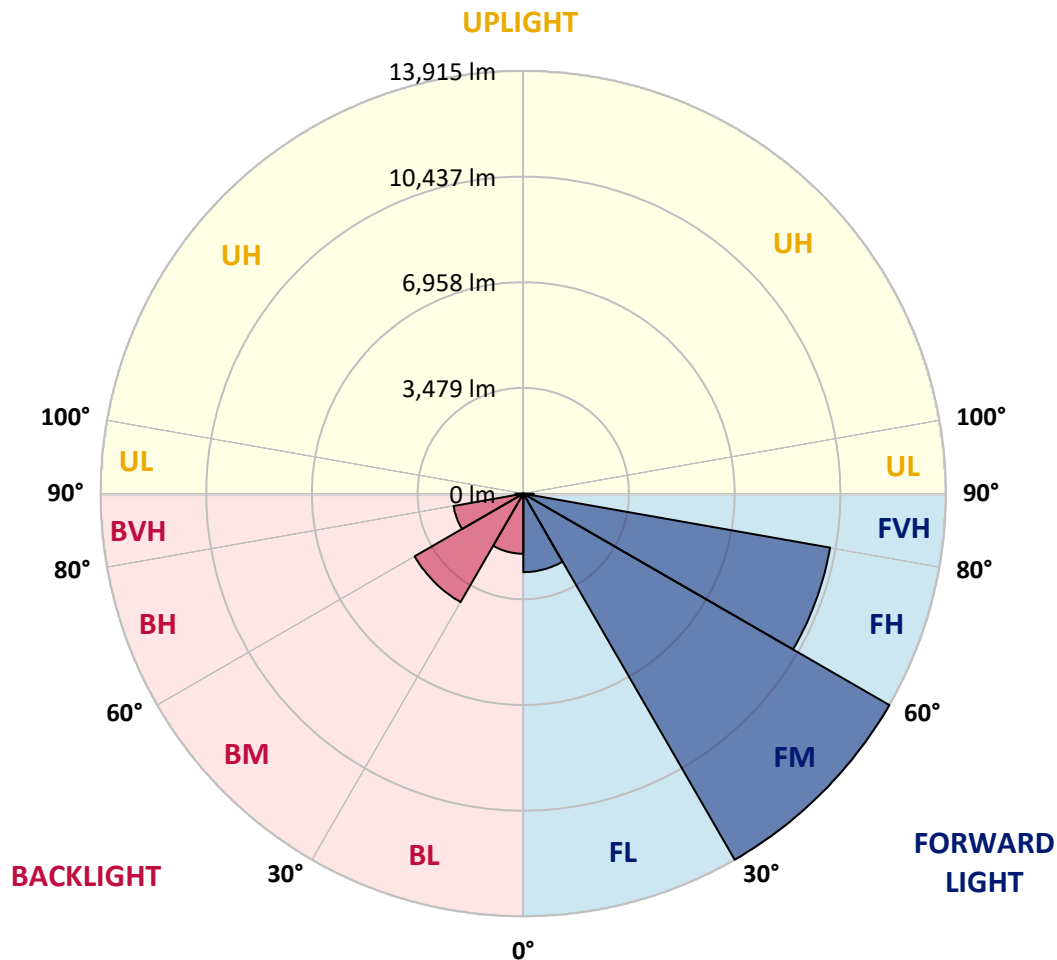
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2584.5	7.2			
FM	(30°-60°)	13915.3	38.9			
FH	(60°-80°)	10254.3	28.7			G4/12000
FVH	(80°-90°)	340.3	1.0			G3/500
BL	(0°-30°)	1980.1	5.5	B3/2500		
BM	(30°-60°)	4127.2	11.5	B3/5000		
BH	(60°-80°)	2332.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	254.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7
2.5°	4855.5	4853.5	4859.5	4853.5	4857.5	4843.6	4837.6	4841.6	4835.6	4825.6	4807.7
5°	4915.4	4913.4	4915.4	4907.4	4911.4	4903.4	4889.4	4893.4	4883.5	4861.5	4835.6
7.5°	5017.1	5009.1	5009.1	5007.1	4999.2	4987.2	4977.2	4973.2	4963.3	4935.3	4895.4
10°	5148.8	5148.8	5150.8	5134.8	5144.8	5122.8	5112.9	5110.9	5077.0	5041.1	4985.2
12.5°	5322.3	5332.3	5326.3	5318.3	5314.4	5306.4	5272.5	5280.4	5242.5	5180.7	5112.9
15°	5537.8	5553.7	5543.8	5539.8	5529.8	5499.9	5485.9	5479.9	5430.1	5340.3	5250.5
17.5°	5823.0	5803.1	5795.1	5785.1	5743.3	5721.3	5697.4	5693.4	5649.5	5543.8	5404.1
20°	6072.4	6100.3	6084.4	6074.4	6032.5	5990.6	5972.7	5966.7	5928.8	5813.1	5589.6
22.5°	6369.6	6375.6	6381.6	6357.7	6337.7	6305.8	6273.9	6263.9	6250.0	6130.3	5857.0
25°	6686.8	6710.8	6690.8	6666.9	6642.9	6640.9	6670.9	6666.9	6660.9	6545.2	6212.0
27.5°	7203.5	7225.4	7231.4	7205.5	7113.7	7121.7	7189.5	7211.5	7303.2	7111.7	6668.9
30°	7494.8	7516.7	7566.6	7664.3	7809.9	7937.6	8101.2	8151.1	8238.8	7877.8	7211.5
32.5°	7674.3	7682.3	7772.0	7953.6	8390.5	8867.2	9312.1	9330.0	9385.9	8879.2	7708.2
35°	7957.6	7963.5	8035.4	8234.9	8747.5	9541.5	10229.7	10251.7	10205.8	9190.4	7939.6
37.5°	8306.7	8322.6	8368.5	8534.1	9146.5	10106.0	10610.8	10594.8	10187.8	9437.8	8348.6
40°	8815.4	8815.4	8761.5	8984.9	9567.4	10429.2	10744.4	10716.5	10608.8	10153.9	8971.0
42.5°	9264.2	9256.2	9383.9	9535.5	10094.1	10927.9	11305.0	11350.9	11528.4	11053.6	9679.1
45°	9848.7	9884.6	9956.4	10231.7	10989.8	11779.7	12266.5	12310.4	12561.7	12112.9	10507.0
47.5°	10439.2	10451.2	10676.6	11043.6	12098.9	12934.8	13333.8	13405.6	13635.0	13351.7	11398.7
50°	10858.1	10971.8	11332.9	11911.4	13242.0	14343.2	14654.4	14740.1	15145.1	14700.3	12438.1
52.5°	11301.0	11412.7	11853.6	12735.3	14554.6	15783.5	16166.5	16224.3	16645.3	16064.7	13501.3
55°	11680.0	11783.7	12284.5	13465.4	15599.9	17253.7	17947.9	17880.1	18081.6	17116.0	14321.2
57.5°	11741.8	11825.6	12456.0	13932.2	16385.9	18514.5	19509.9	19549.8	19316.4	17902.0	14997.5
60°	11263.1	11434.6	12158.8	13882.4	16739.0	19392.2	20674.9	20702.8	20040.5	18305.0	15266.8
62.5°	10415.3	10397.3	11273.1	13080.4	16244.3	19591.7	21361.1	21331.2	20323.8	18111.5	15005.5
64°	9244.3	9459.7	10277.6	12094.9	15446.3	19284.5	21433.0	21417.0	20188.2	17708.5	14560.6
65°	8530.1	8518.1	9326.1	11289.0	14652.4	18821.7	21305.3	21283.3	19904.9	17347.5	14215.5
67.5°	6158.2	6186.1	6984.1	8711.6	11911.4	17012.3	20473.4	20391.6	18787.8	16150.5	12902.9
70°	3730.4	3746.4	4372.8	5779.2	8550.0	13752.7	18454.6	18458.6	17078.1	14363.1	10981.8
72.5°	1965.0	2006.8	2258.2	3281.6	5192.7	9649.2	14971.6	15326.6	14662.3	12258.5	8675.7
75°	1093.2	1099.2	1276.7	1617.8	2649.2	5400.1	11253.1	11354.8	11608.2	9866.7	6415.5
77.5°	833.9	845.8	901.7	1045.3	1442.3	2503.6	6810.5	7321.2	8181.0	6956.1	3660.6
80°	676.3	688.2	736.1	821.9	959.5	1187.0	3163.9	3439.2	4378.8	3088.1	1428.3
82.5°	526.6	518.7	580.5	636.4	698.2	702.2	1298.7	1436.3	1783.4	1328.6	618.4
85°	391.0	391.0	440.9	428.9	450.8	410.9	572.5	632.4	714.2	564.6	287.3
87.5°	155.6	171.6	289.3	259.3	201.5	161.6	211.5	223.4	247.4	221.4	119.7
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°	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7	4801.7
2.5°	4809.6	4815.6	4801.7	4791.7	4787.7	4781.7	4775.7	4777.7	4785.7	4793.7	4791.7
5°	4833.6	4835.6	4811.6	4799.7	4791.7	4783.7	4783.7	4789.7	4805.7	4817.6	4817.6
7.5°	4893.4	4893.4	4859.5	4837.6	4825.6	4811.6	4807.7	4809.6	4821.6	4837.6	4839.6
10°	4987.2	4979.2	4935.3	4901.4	4879.5	4845.6	4815.6	4799.7	4805.7	4815.6	4815.6
12.5°	5100.9	5079.0	5023.1	4977.2	4923.4	4859.5	4797.7	4765.8	4763.8	4773.7	4769.8
15°	5222.6	5198.6	5120.8	5037.1	4943.3	4849.5	4775.7	4729.9	4693.9	4684.0	4705.9
17.5°	5364.2	5314.4	5206.6	5090.9	4951.3	4829.6	4713.9	4620.1	4556.3	4538.3	4544.3
20°	5535.8	5470.0	5324.3	5142.8	4945.3	4757.8	4578.2	4452.6	4348.8	4316.9	4320.9
22.5°	5773.2	5659.5	5446.0	5168.7	4895.4	4622.1	4372.8	4209.2	4083.5	4033.6	4063.6
25°	6042.5	5918.8	5561.7	5162.7	4765.8	4404.7	4129.4	3915.9	3802.2	3728.4	3744.4
27.5°	6413.5	6194.1	5685.4	5108.9	4580.2	4139.4	3820.2	3618.7	3515.0	3477.1	3495.0
30°	6888.3	6551.2	5819.1	4963.3	4287.0	3804.2	3509.0	3377.3	3315.5	3267.6	3283.6
32.5°	7231.4	6802.5	5849.0	4717.9	3969.8	3499.0	3297.5	3199.8	3132.0	3086.1	3096.0
35°	7476.8	7016.0	5835.0	4416.7	3638.7	3247.7	3130.0	3050.2	2940.4	2840.7	2822.8
37.5°	7806.0	7283.3	5733.3	4087.5	3311.5	3078.1	2994.3	2846.7	2689.1	2555.4	2549.5
40°	8310.7	7596.5	5515.8	3700.5	3032.2	2952.4	2850.7	2659.2	2489.6	2381.9	2373.9
42.5°	8831.3	7885.7	5220.6	3293.5	2802.8	2820.8	2697.1	2507.6	2403.8	2334.0	2326.0
45°	9467.7	8198.9	4901.4	2940.4	2633.2	2697.1	2563.4	2453.7	2391.9	2346.0	2334.0
47.5°	10155.9	8520.1	4542.3	2623.3	2489.6	2583.4	2507.6	2457.7	2423.8	2391.9	2377.9
50°	10898.0	8879.2	4205.2	2367.9	2359.9	2465.7	2501.6	2483.6	2463.7	2453.7	2441.7
52.5°	11711.9	9246.3	3921.9	2188.4	2246.2	2381.9	2503.6	2517.5	2517.5	2511.6	2503.6
55°	12262.5	9501.6	3634.7	2042.8	2130.5	2314.1	2499.6	2553.4	2573.4	2565.4	2557.4
57.5°	12669.5	9641.2	3273.6	1917.1	2032.8	2248.2	2477.6	2557.4	2577.4	2587.4	2583.4
60°	12753.2	9511.6	2800.8	1785.4	1927.1	2152.5	2397.8	2497.6	2523.5	2585.4	2591.3
62.5°	12376.2	9112.6	2330.0	1655.7	1797.4	2006.8	2290.1	2429.8	2481.6	2577.4	2587.4
64°	11913.4	8665.7	2068.7	1574.0	1713.6	1925.1	2236.3	2411.8	2479.6	2607.3	2615.3
65°	11574.3	8340.6	1905.1	1522.1	1659.7	1871.2	2206.3	2417.8	2497.6	2653.2	2665.2
67.5°	10325.5	7221.5	1576.0	1400.4	1532.1	1779.4	2212.3	2467.7	2493.6	2671.1	2669.1
70°	8544.1	5749.2	1320.6	1288.7	1408.4	1705.6	2188.4	2387.9	2389.9	2507.6	2479.6
72.5°	6397.6	4249.1	1145.1	1173.0	1270.7	1530.1	2066.7	2280.1	2246.2	2262.2	2234.3
75°	4394.7	2810.8	985.5	1049.3	1127.1	1352.5	1895.1	2070.7	2016.8	1996.9	1976.9
77.5°	2346.0	1554.0	819.9	927.6	979.5	1169.0	1653.8	1823.3	1767.5	1689.7	1663.7
80°	949.6	732.1	660.3	768.0	798.0	941.6	1376.5	1482.2	1440.3	1304.6	1260.8
82.5°	476.8	438.9	518.7	604.4	606.4	672.3	1023.4	1123.1	1029.4	863.8	825.9
85°	249.4	257.3	357.1	424.9	375.0	363.1	614.4	680.3	624.4	542.6	488.7
87.5°	89.8	103.7	187.5	185.5	131.7	69.8	135.7	65.8	35.9	21.9	27.9
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)