

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: P646972

Luminaire Tested: **GALN-SA5C-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28210.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

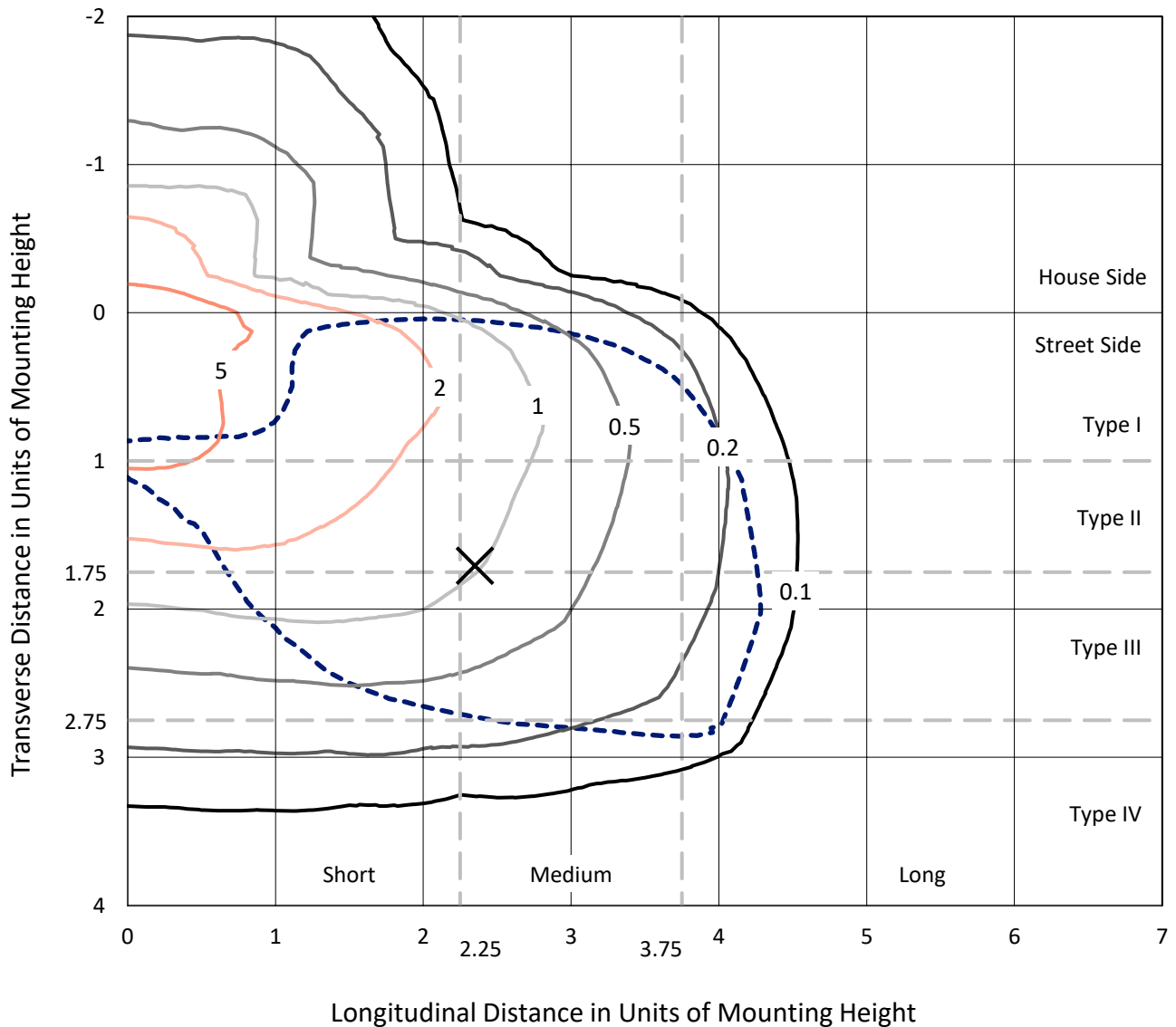
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646972
 CATALOG NUMBER: GALN-SA5C-835-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

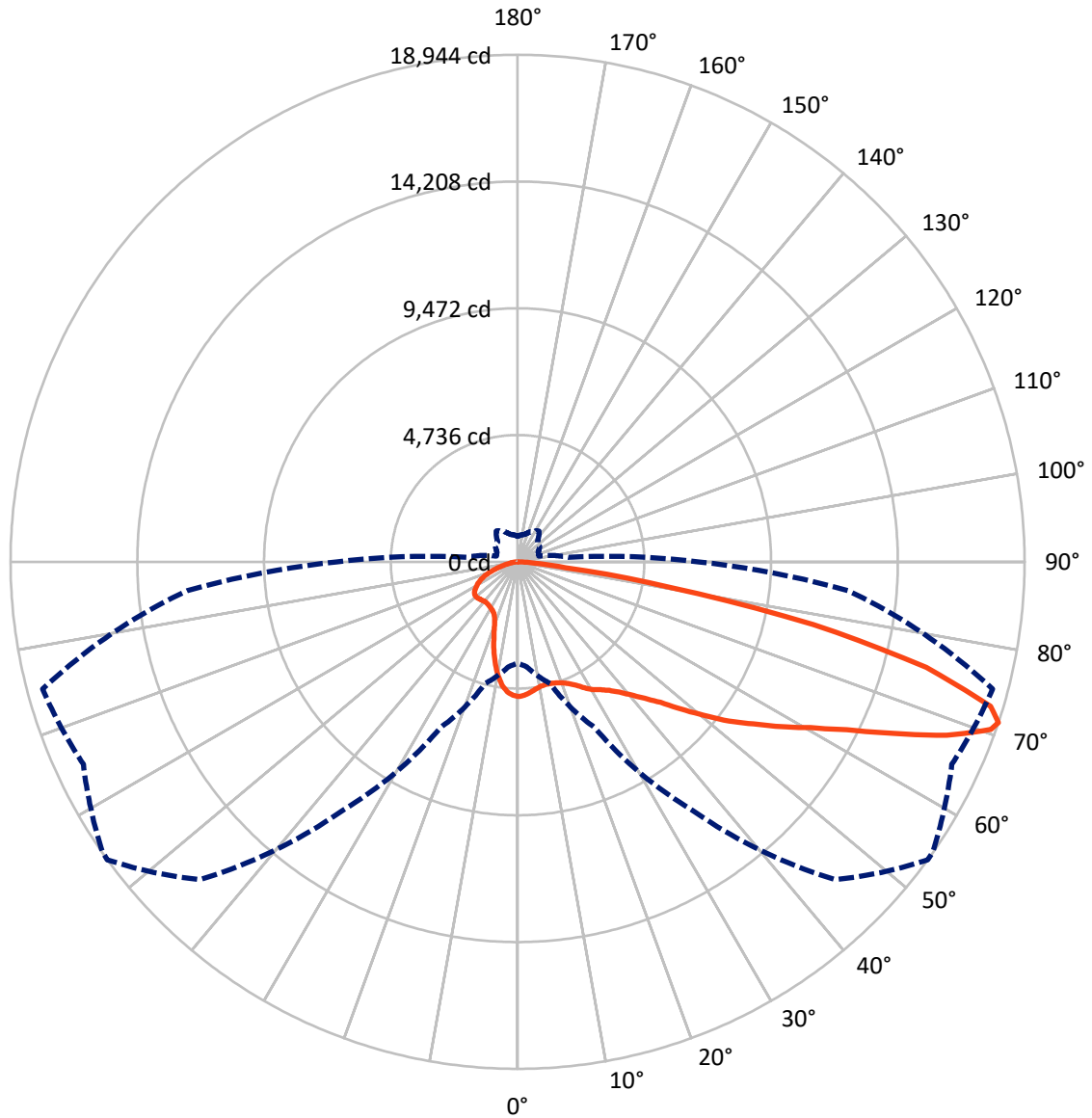
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P646972
CATALOG NUMBER: GALN-SA5C-835-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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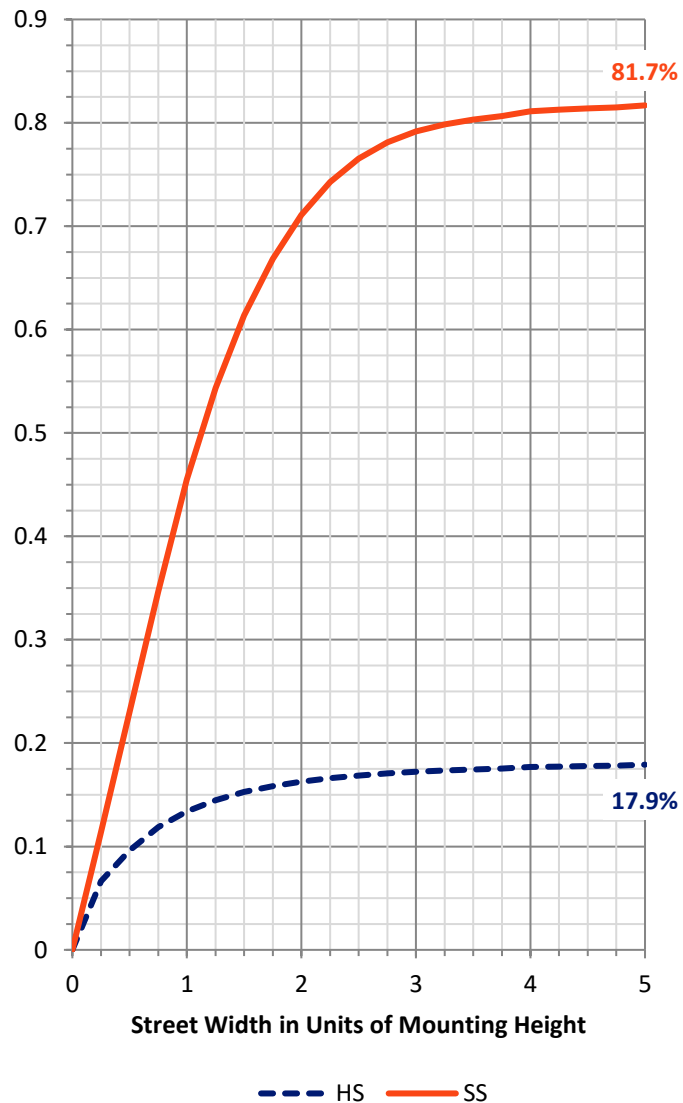
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5093.3	0.0	5093.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23117.4	0.0	23117.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	28210.7	0.0	28210.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.5	1.6
10°-20°	1184.4	4.2
20°-30°	1972.0	7.0
30°-40°	2916.0	10.3
40°-50°	4107.2	14.6
50°-60°	5499.7	19.5
60°-70°	6932.0	24.6
70°-80°	4734.5	16.8
80°-90°	416.4	1.5
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°	28210.7	100.0
0°-180°	28210.7	100.0

Coefficient of Utilization



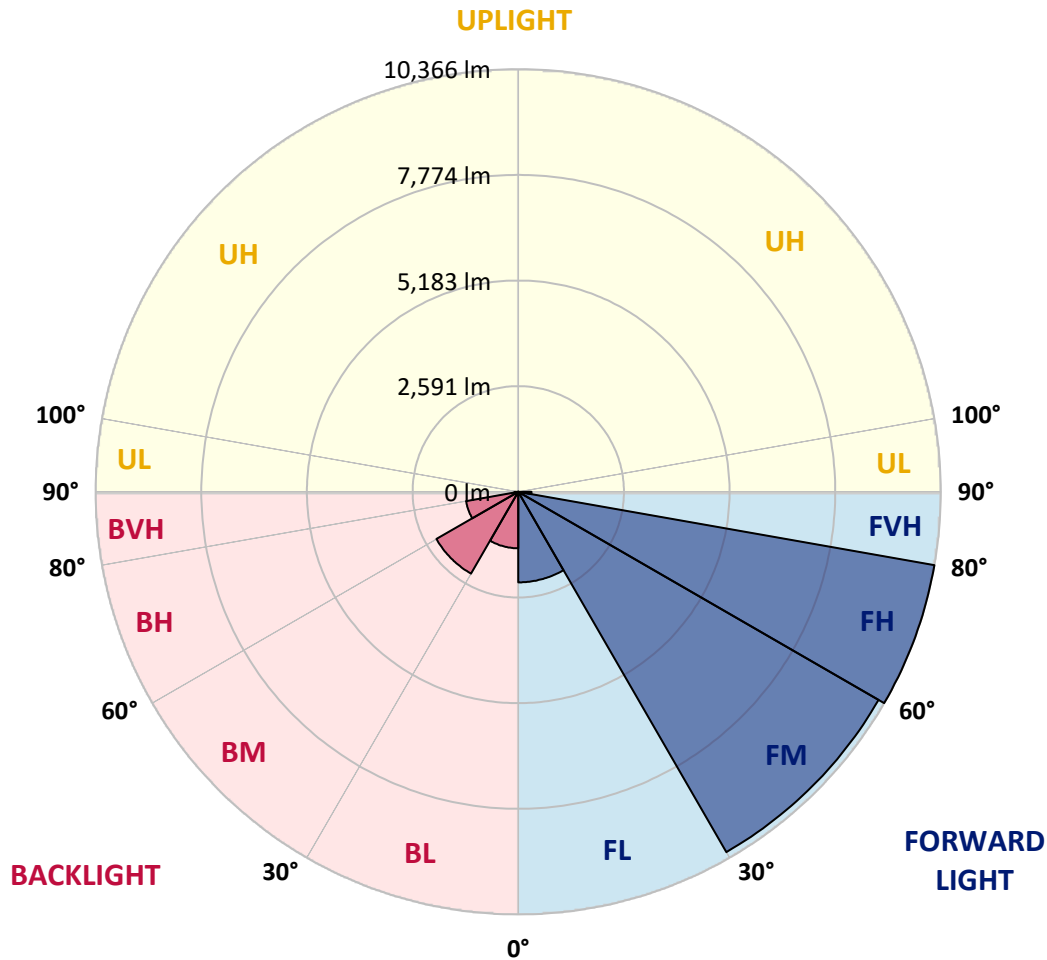
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 CATALOG NUMBER: GALN-SA5C-835-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.6	7.9			
FM (30°-60°)	10205.6	36.2			
FH (60°-80°)	10365.7	36.7			G4/12000
FVH (80°-90°)	325.5	1.2			G3/500
BL (0°-30°)	1384.3	4.9	B3/2500		
BM (30°-60°)	2317.3	8.2	B2/2500		
BH (60°-80°)	1300.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	90.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





REPORT NUMBER: P646972

CATALOG NUMBER: GALN-SA5C-835-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2
2.5°	4862.5	4885.4	4891.5	4906.7	4938.7	4964.6	4990.5	4987.5	5024.0	5039.3	5053.0
5°	4646.2	4652.3	4675.1	4705.6	4762.0	4833.6	4903.7	4905.2	4995.1	5066.7	5101.8
7.5°	4487.7	4507.5	4522.7	4554.7	4614.1	4691.9	4803.1	4812.2	4972.3	5114.0	5188.6
10°	4384.1	4406.9	4423.7	4463.3	4522.7	4609.6	4729.9	4746.7	4955.5	5188.6	5319.7
12.5°	4289.6	4312.5	4327.6	4379.5	4457.2	4563.9	4699.5	4719.3	4961.6	5275.5	5462.9
15°	4347.5	4365.8	4359.7	4374.9	4426.7	4548.6	4711.7	4731.5	4984.4	5359.3	5604.6
17.5°	4605.0	4620.2	4570.0	4512.0	4487.7	4577.6	4749.8	4771.1	5030.1	5446.2	5749.4
20°	4984.4	5025.6	4915.9	4786.3	4669.0	4681.2	4829.0	4851.9	5094.2	5533.0	5897.2
22.5°	5478.2	5508.6	5374.5	5161.2	4944.8	4833.6	4947.9	4961.6	5190.2	5645.8	6058.8
25°	6058.8	6077.0	5891.1	5616.9	5304.4	5094.2	5111.0	5135.3	5348.7	5773.8	6202.0
27.5°	6622.5	6680.5	6465.6	6130.3	5719.0	5368.5	5334.9	5350.2	5520.9	5845.4	6301.0
30°	7291.5	7287.0	7059.9	6671.3	6144.0	5667.1	5546.8	5543.7	5613.8	5880.5	6372.7
32.5°	7824.8	7887.3	7664.9	7241.3	6630.2	5976.5	5693.0	5686.9	5685.4	5941.4	6479.3
35°	8431.3	8440.5	8236.3	7809.6	7155.9	6365.0	5897.2	5866.7	5831.7	6072.5	6624.1
37.5°	8973.8	9016.5	8829.0	8350.6	7672.5	6768.9	6177.6	6157.8	6051.1	6299.5	6855.7
40°	9397.5	9429.4	9316.7	8861.1	8181.4	7204.7	6534.2	6497.6	6368.1	6671.3	7165.1
42.5°	9536.2	9601.6	9645.9	9421.8	8766.6	7721.2	6973.0	6927.4	6828.3	7235.2	7521.7
45°	9546.8	9650.4	9883.6	9894.2	9354.8	8339.9	7485.0	7453.1	7445.4	7957.5	8022.9
47.5°	9466.0	9571.2	9962.8	10174.6	9879.0	8964.7	8224.1	8173.8	8178.4	8850.4	8585.3
50°	9271.0	9395.9	9871.4	10354.4	10288.9	9613.8	9004.3	8987.5	9082.0	9869.9	9168.9
52.5°	8903.7	9054.6	9776.9	10467.1	10593.7	10173.0	9891.2	9844.0	10083.2	10976.2	9807.4
55°	7887.3	8114.4	9431.0	10529.6	10883.2	10707.9	10689.7	10775.0	11092.0	12183.0	10509.8
57.5°	7357.1	7527.7	8679.7	10540.4	11248.9	11329.7	11622.2	11643.6	12198.3	13464.5	11303.8
60°	7067.5	7218.4	8268.3	10470.2	11759.4	12099.2	12576.2	12652.3	13278.7	14852.7	12126.6
62.5°	6814.5	6944.1	8021.4	10227.9	12335.4	13240.5	13812.0	13848.5	14505.3	16385.8	12938.8
65°	6218.7	6366.6	7524.6	9985.7	12832.2	14666.8	15451.6	15409.0	15811.3	17708.4	13447.8
67.5°	5415.7	5603.1	6596.6	9149.0	13077.5	16225.7	17298.5	17245.2	17100.4	18575.5	13594.1
70°	4390.1	4490.7	5409.6	7702.9	12097.7	17044.0	18756.8	18700.5	17898.9	18689.7	12902.3
71°	3777.6	3934.5	4710.1	6842.0	11282.4	16794.1	18944.2	18929.0	17900.4	18374.3	12381.1
72.5°	2948.6	3044.6	3730.4	5301.4	9589.5	15373.9	18481.0	18538.9	17511.9	17498.1	11306.8
75°	1865.2	1907.9	2340.6	3120.8	5261.8	10887.8	15776.2	15933.2	15549.1	14322.5	8408.5
77.5°	1083.4	1138.3	1402.0	1839.3	2273.5	5909.4	11288.5	11459.2	10803.9	7885.8	3442.3
80°	630.9	691.8	923.5	1068.2	1043.8	2192.8	5747.8	6039.0	4678.2	1991.6	966.1
82.5°	350.5	391.7	649.2	650.7	556.2	716.2	1808.8	1892.6	1334.9	803.0	394.7
85°	254.5	288.0	419.1	379.4	266.7	307.8	629.4	659.8	539.4	338.3	128.0
87.5°	89.9	128.0	230.1	182.8	73.1	64.0	181.3	147.8	137.2	94.5	29.0
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°	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2	5033.2
2.5°	5060.6	5063.7	5048.5	5021.0	4993.6	4958.5	4918.9	4888.4	4874.7	4873.2	4871.7
5°	5115.5	5123.1	5065.2	4979.9	4885.4	4769.6	4670.5	4557.8	4528.8	4483.1	4496.8
7.5°	5203.9	5199.3	5085.0	4903.7	4682.7	4437.4	4230.2	4109.7	3984.8	3949.8	3951.3
10°	5330.4	5301.4	5085.0	4748.3	4379.5	4015.3	3725.7	3542.9	3443.9	3361.6	3331.1
12.5°	5464.5	5391.3	5036.3	4530.4	3989.4	3542.9	3232.1	2985.2	2921.2	2854.1	2855.7
15°	5592.4	5470.5	4940.3	4224.1	3568.8	3038.5	2736.8	2589.0	2569.2	2576.8	2575.3
17.5°	5708.2	5527.0	4794.0	3882.7	3078.1	2605.7	2445.8	2456.4	2509.7	2547.8	2552.4
20°	5825.6	5560.5	4576.1	3425.5	2614.9	2343.7	2349.8	2433.6	2514.3	2566.1	2573.7
22.5°	5936.9	5575.7	4320.0	2983.6	2279.6	2232.4	2322.3	2412.2	2491.4	2541.8	2549.4
25°	6010.0	5540.7	3957.4	2522.0	2115.0	2192.8	2287.3	2363.5	2430.5	2482.3	2494.5
27.5°	6029.8	5427.9	3507.8	2148.6	2038.9	2154.7	2241.6	2297.9	2349.8	2398.5	2407.6
30°	6019.2	5261.8	3014.2	1929.2	1994.7	2110.5	2177.5	2218.7	2281.2	2319.2	2326.9
32.5°	6002.4	5068.3	2499.1	1811.9	1958.1	2069.4	2109.0	2145.6	2144.0	2128.8	2139.5
35°	6008.4	4836.7	2081.5	1741.7	1926.1	2038.9	2072.4	2026.7	1895.6	1889.5	1883.4
37.5°	6040.5	4608.0	1778.3	1693.0	1909.3	2034.3	2052.6	1842.3	1726.5	1673.2	1659.4
40°	6122.7	4341.4	1578.7	1656.4	1907.9	2069.4	1962.7	1749.4	1526.9	1423.3	1415.7
42.5°	6232.4	4079.3	1456.8	1633.6	1926.1	2122.7	1926.1	1618.3	1376.0	1315.0	1305.9
45°	6395.5	3779.1	1389.7	1622.8	1953.6	2142.5	1914.0	1522.3	1315.0	1266.3	1266.3
47.5°	6579.9	3492.6	1353.2	1615.3	1988.6	2128.8	1805.8	1491.8	1286.1	1292.2	1321.2
50°	6762.8	3244.2	1325.7	1598.5	2019.0	2121.1	1761.5	1490.3	1293.8	1371.4	1423.3
52.5°	6974.6	3069.0	1292.2	1571.1	2019.0	2072.4	1747.8	1520.7	1315.0	1337.9	1360.8
55°	7230.5	3014.2	1249.5	1511.7	1982.5	1950.5	1740.2	1565.0	1330.3	1277.0	1286.1
57.5°	7568.9	3102.5	1208.4	1437.0	1898.7	1824.0	1737.2	1577.2	1295.2	1251.1	1241.9
60°	7962.0	3277.8	1196.2	1360.8	1784.4	1715.9	1718.8	1542.1	1246.5	1200.8	1208.4
62.5°	8237.8	3382.9	1188.6	1302.9	1659.4	1597.0	1674.7	1499.4	1225.2	1185.5	1193.1
65°	8237.8	3254.9	1118.5	1214.5	1498.0	1453.7	1621.4	1446.1	1197.8	1152.0	1144.4
67.5°	7925.4	2881.6	1011.8	1081.9	1319.7	1290.7	1546.7	1382.2	1156.6	1121.6	1103.2
70°	7111.7	2185.2	877.7	926.5	1094.1	1120.0	1450.7	1295.2	1088.0	1045.4	1017.9
71°	6753.6	1903.2	821.4	847.3	1007.3	1045.4	1404.9	1258.7	1057.5	996.6	947.8
72.5°	6063.3	1603.0	736.0	746.7	861.0	929.5	1308.9	1188.6	999.7	912.7	857.9
75°	4606.5	1170.3	592.7	586.7	637.0	737.5	1107.8	1059.1	876.2	758.9	726.9
77.5°	1990.2	637.0	443.4	448.0	432.8	559.2	871.6	909.7	751.2	617.2	588.2
80°	603.5	367.2	303.3	309.4	289.6	374.9	614.1	713.2	603.5	480.0	440.4
82.5°	309.4	219.4	207.3	204.2	184.4	211.8	371.8	487.7	431.3	300.2	265.1
85°	134.1	117.4	102.1	99.0	86.8	76.2	132.6	243.8	228.6	167.6	160.0
87.5°	33.5	30.5	19.8	18.3	10.6	1.5	0.0	0.0	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)