

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: P531853

Luminaire Tested: **GALN-SA7A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531853
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-SA7A-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 14931 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

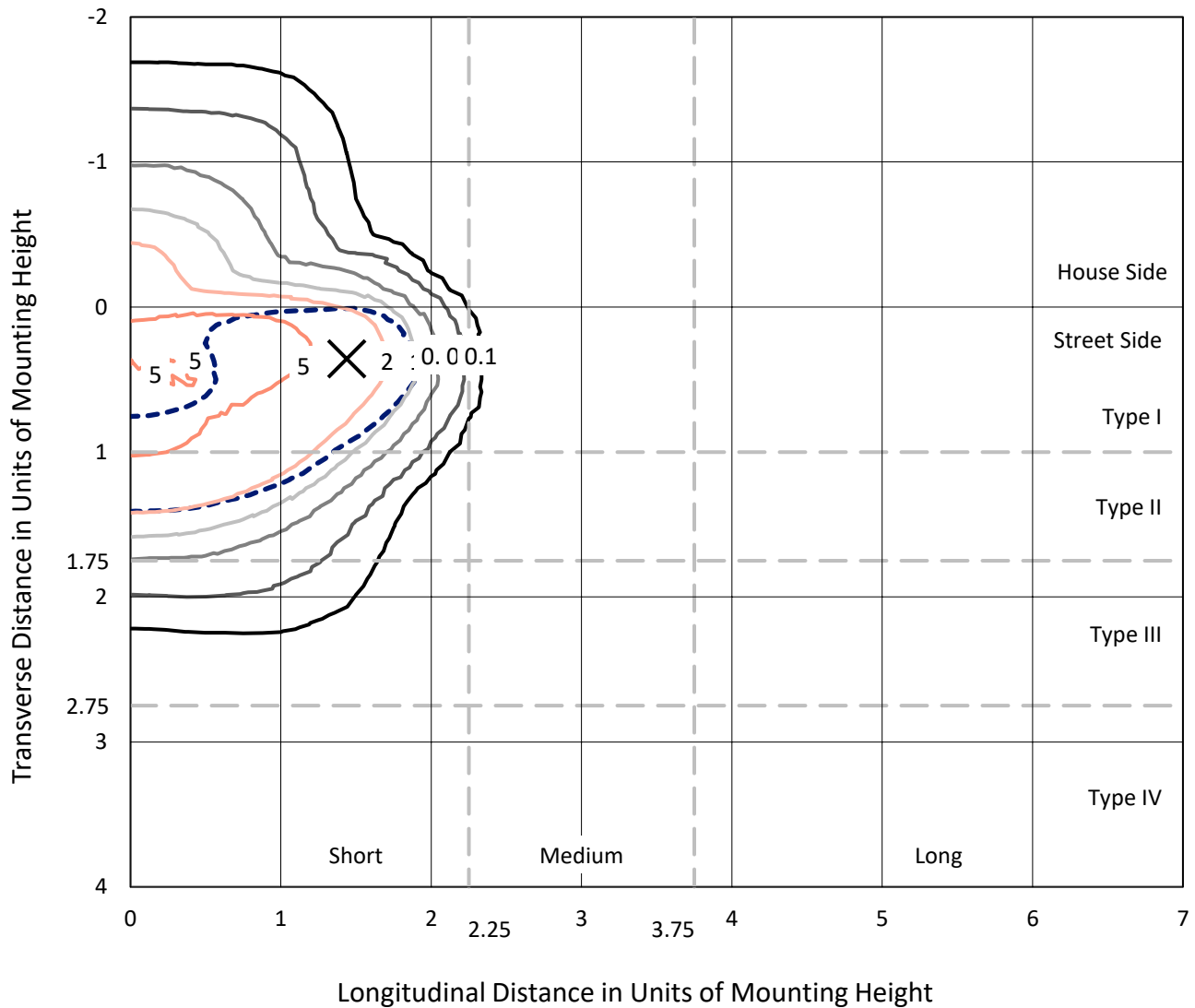
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

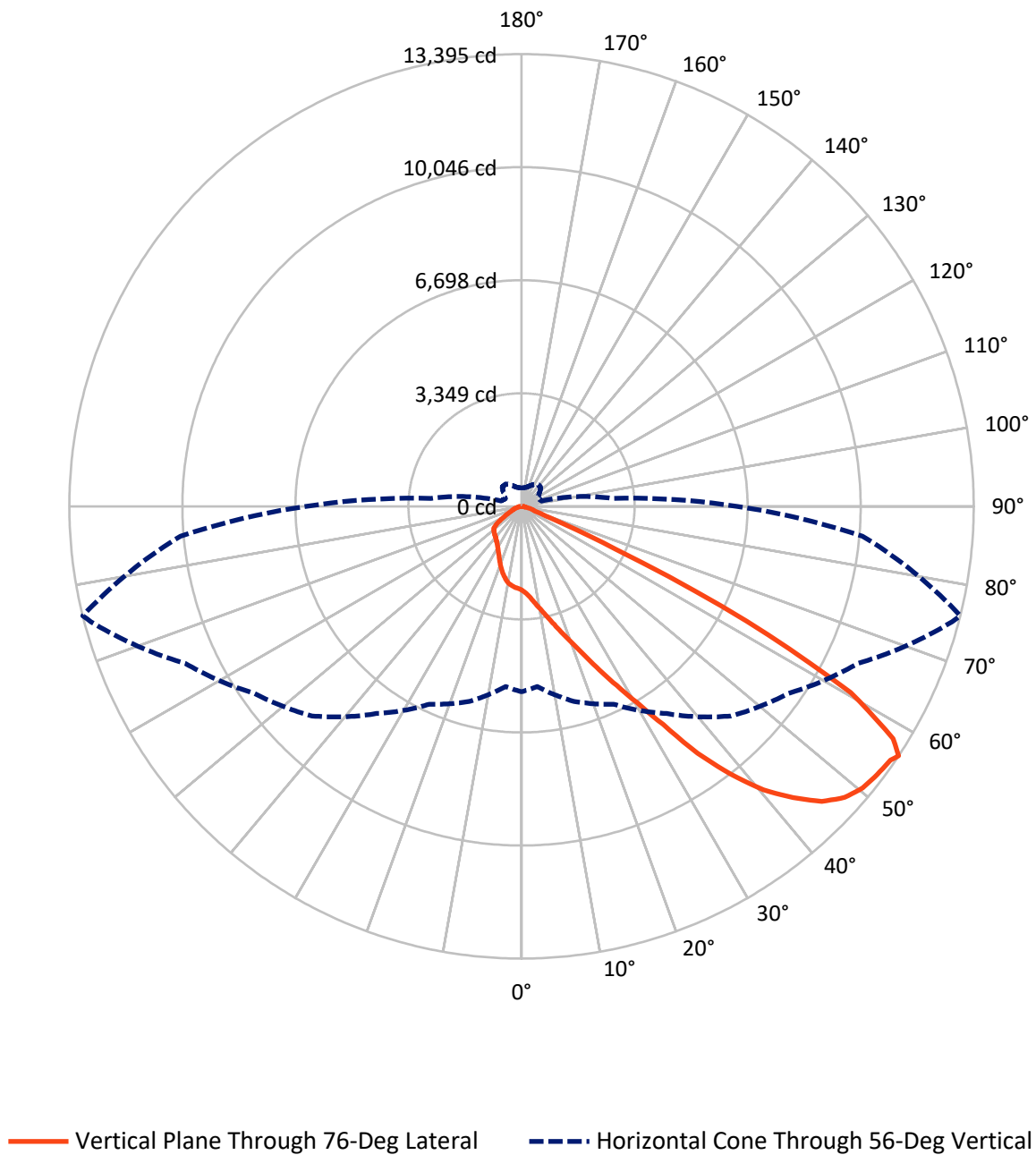
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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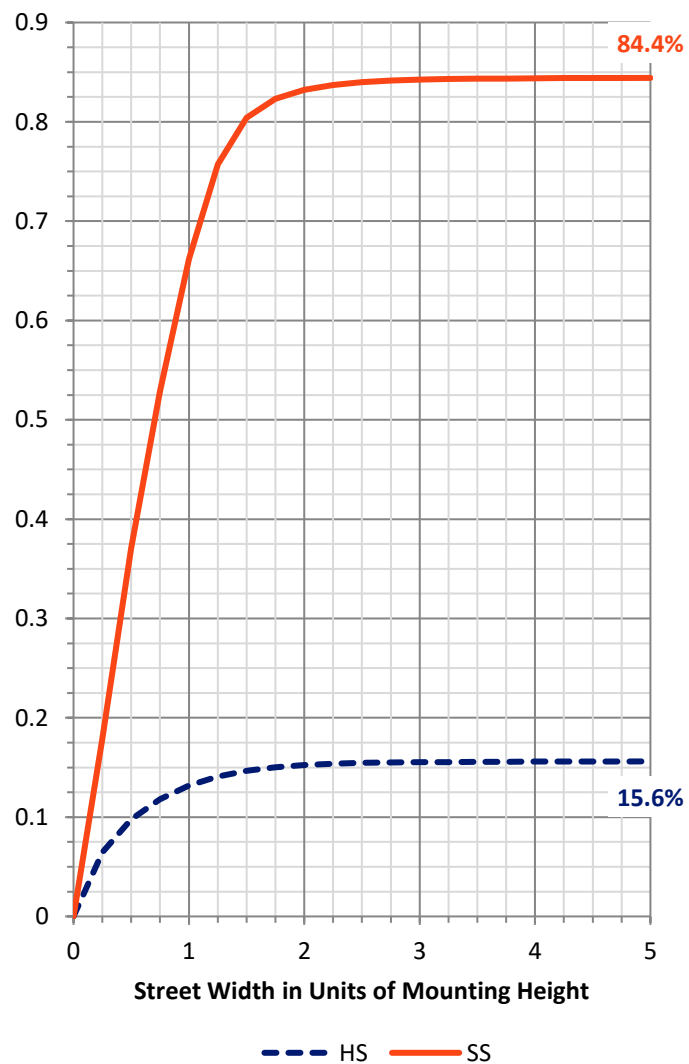
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2345.6	0.0	2345.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12585.4	0.0	12585.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	14931.0	0.0	14931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	1.7
10°-20°	804.3	5.4
20°-30°	1458.4	9.8
30°-40°	2515.1	16.8
40°-50°	4085.9	27.4
50°-60°	4306.7	28.8
60°-70°	1315.9	8.8
70°-80°	168.7	1.1
80°-90°	25.6	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°	14931.0	100.0
0°-180°	14931.0	100.0

Coefficient of Utilization



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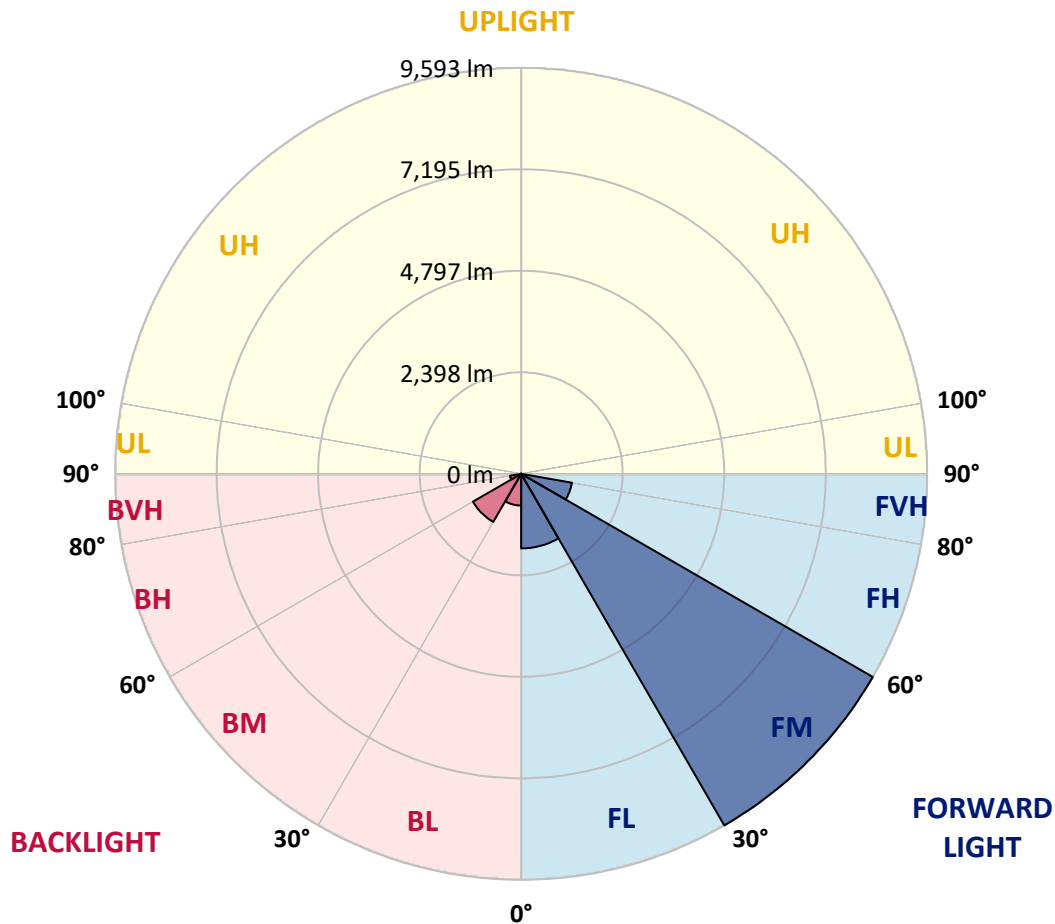
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1762.7	11.8			
FM	(30°-60°)	9593.1	64.2			
FH	(60°-80°)	1217.0	8.2			G1/1800
FVH	(80°-90°)	12.6	0.1			G1/100
BL	(0°-30°)	750.4	5.0	B2/1000		
BM	(30°-60°)	1314.6	8.8	B2/2500		
BH	(60°-80°)	267.6	1.8	B1/500		G1/500
BVH	(80°-90°)	13.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3
2.5°	2862.3	2796.3	2799.0	2793.5	2785.3	2755.0	2664.2	2650.4	2589.9	2573.4	2518.3
5°	3206.4	3148.6	3181.6	3132.1	3085.3	3057.8	2909.1	2840.3	2744.0	2708.2	2631.2
7.5°	3421.1	3393.5	3382.5	3385.3	3341.2	3272.4	3206.4	3055.0	2925.6	2898.1	2735.7
10°	3525.6	3509.1	3525.6	3517.4	3536.6	3544.9	3429.3	3338.5	3148.6	3101.8	2848.6
12.5°	3550.4	3583.4	3597.2	3633.0	3679.8	3759.6	3751.3	3627.5	3374.3	3344.0	3022.0
15°	3611.0	3638.5	3624.7	3682.5	3770.6	3905.5	3977.0	3957.7	3685.3	3630.2	3222.9
17.5°	3666.0	3616.5	3663.3	3778.8	3866.9	4073.3	4246.7	4326.5	4023.8	3960.5	3407.3
20°	3740.3	3726.6	3718.3	3776.1	3933.0	4208.2	4552.2	4698.1	4403.6	4337.6	3671.5
22.5°	3966.0	3968.8	3963.2	3877.9	3990.8	4301.8	4819.2	5179.7	4857.7	4802.7	3971.5
25°	4263.2	4227.5	4199.9	4131.1	4117.4	4387.1	5088.9	5768.7	5402.7	5364.1	4296.3
27.5°	4577.0	4577.0	4494.4	4431.1	4343.1	4599.0	5336.6	6341.2	6060.5	6008.2	4579.8
30°	4918.3	4937.5	4926.5	4791.7	4736.6	4830.2	5589.8	7073.3	6814.6	6748.5	5047.6
32.5°	5421.9	5380.7	5427.4	5314.6	5152.2	5234.8	5988.9	7728.3	7794.4	7700.8	5661.4
35°	6088.0	6063.2	6032.9	5848.5	5655.9	5721.9	6553.1	8534.7	9024.6	8977.9	6280.6
37.5°	6685.2	6671.5	6646.7	6520.1	6297.2	6377.0	7194.4	9374.2	10224.6	10070.5	7155.9
40°	7312.7	7387.1	7307.2	7194.4	6990.7	7166.9	7948.5	9872.3	11234.7	11047.6	7824.7
42.5°	8163.2	8105.4	8141.2	7934.8	7824.7	8017.3	8705.4	10370.5	12019.1	11796.2	8534.7
45°	9068.7	9071.4	8975.1	8909.1	8622.8	8832.0	9170.5	10645.7	12643.9	12470.5	9071.4
47.5°	9649.4	9646.7	9751.2	9855.8	9561.3	9354.9	9487.0	10907.2	12965.9	12886.1	9266.8
50°	9558.6	9586.1	9721.0	10111.8	10265.9	9987.9	9784.3	10830.1	13111.7	13103.5	9434.7
52.5°	8314.6	8405.4	8631.1	9195.3	9971.4	10315.5	10095.3	10973.2	13183.3	13197.1	9685.2
55°	6330.2	6379.7	6809.1	7494.4	8353.1	9531.1	9971.4	11086.1	13238.4	13263.1	9987.9
56°	5490.8	5358.6	5977.9	6465.0	7491.6	8779.7	9657.7	10998.0	13205.3	13395.2	10139.3
57.5°	4144.9	4056.8	4557.7	5166.0	6154.0	7513.7	8683.4	10582.4	12982.4	12979.6	9921.9
60°	2521.1	2433.0	2818.3	3176.1	3729.3	4626.5	5867.8	8427.4	10976.0	11207.2	8033.8
62.5°	1500.0	1555.0	1934.8	2152.3	2331.2	2424.7	3035.7	5009.1	7323.8	7488.9	4984.3
65°	999.1	1018.3	1304.6	1662.4	1742.2	1387.1	1235.8	2028.4	3176.1	3074.3	2055.9
67.5°	616.5	660.5	875.2	1249.5	1384.4	1012.8	586.2	756.9	875.2	875.2	594.5
70°	374.3	396.3	583.5	850.4	949.5	652.3	426.6	426.6	421.1	412.8	355.0
72.5°	178.9	192.7	297.2	437.6	445.9	344.0	330.3	360.5	352.3	349.5	294.5
75°	77.1	82.6	104.6	137.6	156.9	145.9	200.9	258.7	267.0	258.7	211.9
77.5°	24.8	27.5	38.5	49.5	52.3	63.3	85.3	107.3	123.9	115.6	104.6
80°	2.8	5.5	11.0	24.8	38.5	49.5	63.3	71.6	79.8	79.8	74.3
82.5°	2.8	2.8	11.0	22.0	35.8	46.8	60.5	68.8	79.8	82.6	77.1
85°	0.0	2.8	8.3	19.3	30.3	30.3	27.5	27.5	19.3	19.3	19.3
87.5°	0.0	0.0	2.8	2.8	2.8	5.5	5.5	5.5	5.5	5.5	5.5
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°	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3
2.5°	2507.3	2501.8	2427.5	2380.7	2355.9	2306.4	2276.1	2254.1	2237.6	2218.3	2221.1
5°	2540.3	2521.1	2397.2	2311.9	2210.1	2155.0	2108.2	2069.7	2044.9	2039.4	2028.4
7.5°	2633.9	2532.1	2344.9	2190.8	2061.4	2006.4	1965.1	1940.3	1951.3	1926.6	1945.8
10°	2705.5	2554.1	2281.6	2058.7	1929.3	1888.0	1866.0	1885.3	1912.8	1901.8	1888.0
12.5°	2793.5	2576.1	2179.8	1932.1	1811.0	1780.7	1819.2	1855.0	1910.1	1932.1	1904.6
15°	2892.6	2600.9	2050.4	1786.2	1709.2	1733.9	1800.0	1863.3	1918.3	1945.8	1962.4
17.5°	3013.7	2592.6	1923.8	1670.6	1612.8	1684.4	1764.2	1822.0	1904.6	1945.8	1934.8
20°	3126.6	2565.1	1783.5	1555.0	1557.8	1623.8	1689.9	1783.5	1827.5	1882.5	1863.3
22.5°	3233.9	2515.6	1637.6	1475.2	1475.2	1577.0	1610.1	1670.6	1709.2	1736.7	1733.9
25°	3385.3	2422.0	1516.5	1398.1	1431.2	1497.2	1524.7	1544.0	1527.5	1549.5	1552.3
27.5°	3492.6	2325.7	1417.4	1329.3	1389.9	1439.4	1431.2	1420.2	1381.6	1351.4	1370.6
30°	3608.2	2212.8	1332.1	1282.6	1315.6	1359.6	1326.6	1293.6	1233.0	1183.5	1186.2
32.5°	3773.3	2160.5	1257.8	1227.5	1271.5	1277.0	1241.3	1191.7	1131.2	1084.4	1081.6
35°	4081.6	2127.5	1194.5	1191.7	1200.0	1202.7	1167.0	1106.4	1081.6	1043.1	1056.9
37.5°	4389.8	2111.0	1150.4	1139.4	1136.7	1139.4	1098.2	1040.4	1087.1	1084.4	1089.9
40°	4783.4	2185.3	1087.1	1073.4	1076.1	1076.1	1023.8	1007.3	1089.9	1098.2	1100.9
42.5°	5182.5	2278.9	1045.9	1001.8	1012.8	1012.8	985.3	966.0	1023.8	968.8	960.5
45°	5529.3	2416.5	1001.8	930.3	957.8	971.5	963.3	930.3	894.5	800.9	800.9
47.5°	5642.1	2537.6	949.5	861.5	883.5	944.0	919.3	850.4	787.1	710.1	704.6
50°	5840.3	2669.7	908.2	781.6	828.4	902.7	878.0	809.2	737.6	682.6	685.3
52.5°	6044.0	2821.1	831.2	688.1	745.9	869.7	869.7	792.6	682.6	644.0	638.5
55°	6349.5	2815.6	693.6	564.2	666.0	820.2	833.9	710.1	611.0	580.7	580.7
56°	6393.5	2689.0	624.8	528.4	630.3	806.4	809.2	688.1	583.5	550.5	550.5
57.5°	6063.2	2427.5	547.7	484.4	586.2	781.6	784.4	668.8	561.5	514.7	509.2
60°	4665.1	1643.1	456.9	432.1	531.2	704.6	718.3	608.2	492.7	456.9	454.1
62.5°	2633.9	911.0	401.8	390.8	456.9	600.0	641.3	531.2	418.3	399.1	404.6
65°	1202.7	500.9	338.5	316.5	368.8	462.4	517.4	437.6	344.0	322.0	322.0
67.5°	440.4	341.3	289.0	250.5	258.7	300.0	335.8	283.5	228.4	195.4	203.7
70°	313.8	286.2	253.2	217.4	200.9	195.4	192.7	159.6	112.8	88.1	93.6
72.5°	253.2	236.7	211.9	184.4	156.9	132.1	112.8	82.6	52.3	35.8	33.0
75°	181.6	173.4	154.1	132.1	110.1	93.6	77.1	52.3	27.5	13.8	13.8
77.5°	93.6	93.6	90.8	82.6	68.8	55.0	44.0	30.3	16.5	5.5	5.5
80°	71.6	77.1	79.8	71.6	63.3	49.5	35.8	22.0	11.0	2.8	2.8
82.5°	68.8	79.8	85.3	74.3	63.3	46.8	35.8	22.0	11.0	2.8	2.8
85°	16.5	16.5	24.8	27.5	35.8	38.5	30.3	19.3	8.3	2.8	2.8
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	2.8	2.8	2.8	2.8	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)