

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: P526940

Luminaire Tested: **GALN-SA1D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5218 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 65
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

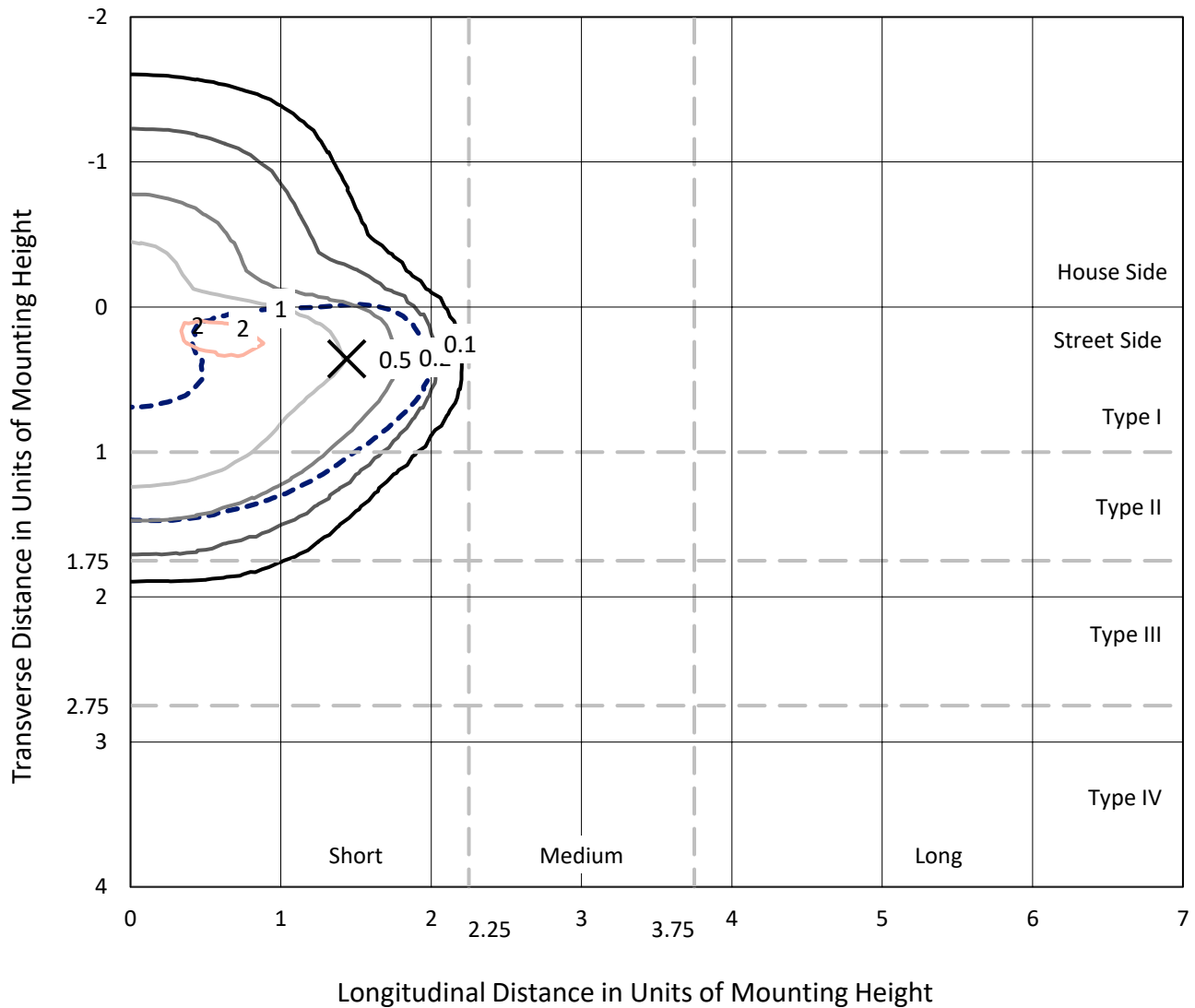


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

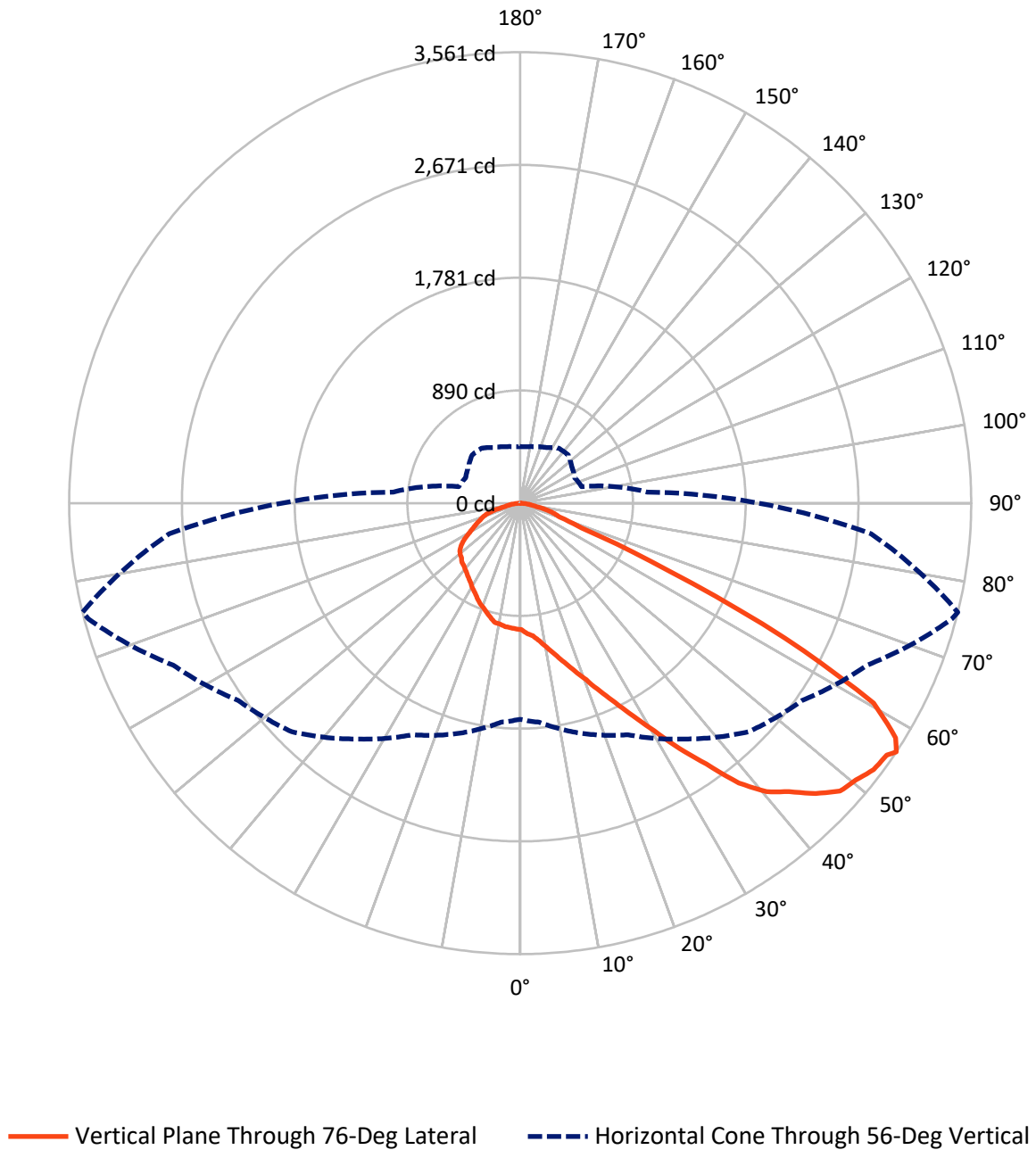


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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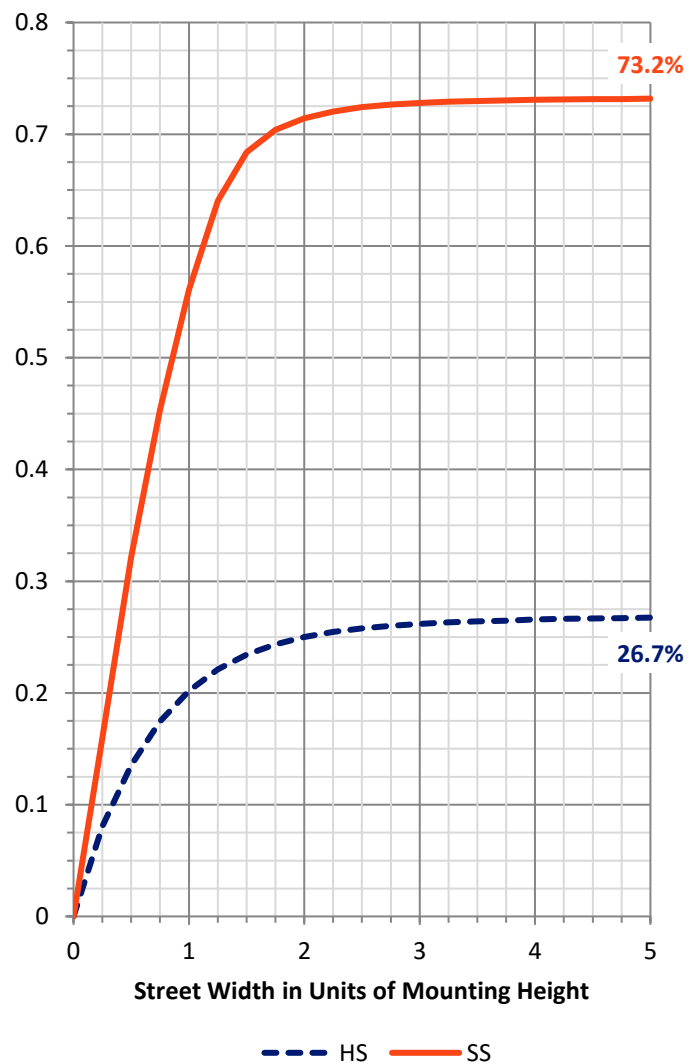
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1403.0	0.0	1403.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	3815.0	0.0	3815.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	5218.0	0.0	5218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.9
10°-20°	311.0	6.0
20°-30°	543.9	10.4
30°-40°	851.7	16.3
40°-50°	1238.9	23.7
50°-60°	1361.6	26.1
60°-70°	607.8	11.6
70°-80°	175.6	3.4
80°-90°	28.5	0.5
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°	5218.0	100.0
0°-180°	5218.0	100.0

Coefficient of Utilization



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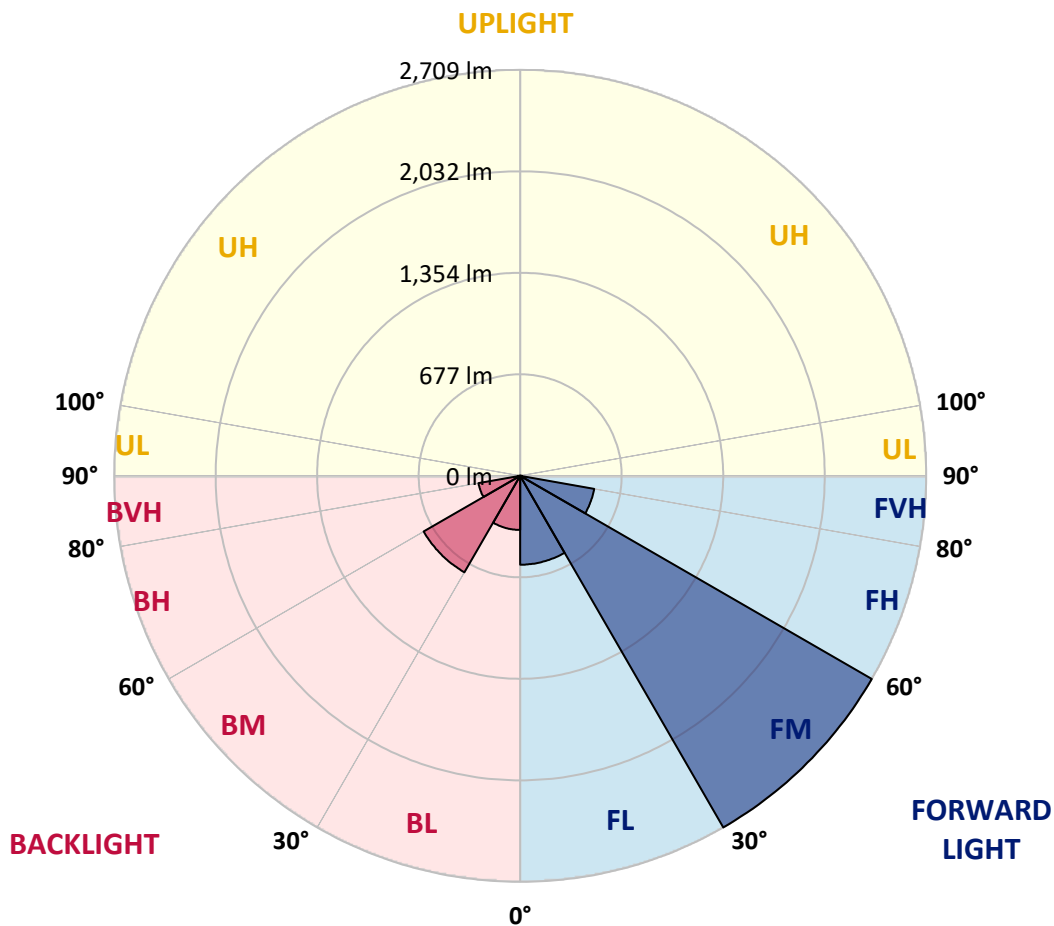
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.0	11.4			
FM	(30°-60°)	2708.8	51.9			
FH	(60°-80°)	501.1	9.6			G0/660
FVH	(80°-90°)	12.3	0.2			G1/100
BL	(0°-30°)	361.0	6.9	B1/500		
BM	(30°-60°)	743.5	14.2	B1/1000		
BH	(60°-80°)	282.3	5.4	B1/500		G1/500
BVH	(80°-90°)	16.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4
2.5°	1099.9	1082.3	1080.9	1076.2	1078.9	1066.7	1053.9	1037.0	1019.4	1030.2	1004.5
5°	1177.0	1153.3	1162.8	1146.5	1148.6	1132.3	1105.9	1086.3	1064.7	1051.8	1033.6
7.5°	1204.0	1206.1	1212.8	1210.1	1196.6	1196.6	1179.0	1144.5	1106.6	1099.2	1068.7
10°	1240.6	1241.2	1233.8	1235.8	1254.8	1246.0	1230.4	1215.5	1166.8	1158.0	1103.9
12.5°	1253.4	1241.2	1253.4	1264.2	1286.6	1298.7	1295.3	1284.5	1232.4	1226.4	1147.2
15°	1255.4	1248.0	1258.1	1282.5	1302.1	1353.5	1379.2	1371.8	1302.8	1303.5	1195.9
17.5°	1246.0	1256.1	1260.2	1281.1	1326.5	1374.5	1448.9	1459.0	1402.2	1393.4	1257.5
20°	1258.8	1251.4	1256.8	1275.7	1335.9	1411.0	1508.4	1575.4	1495.6	1489.5	1321.1
22.5°	1308.2	1298.1	1296.7	1308.9	1352.2	1430.0	1571.3	1691.7	1609.2	1612.6	1400.2
25°	1346.8	1352.2	1347.4	1346.8	1373.8	1458.4	1654.5	1830.4	1763.4	1743.8	1493.5
27.5°	1413.0	1425.9	1416.4	1429.3	1423.2	1501.0	1714.1	1983.9	1929.8	1903.4	1578.1
30°	1505.0	1511.8	1503.0	1503.0	1484.7	1560.5	1768.2	2144.3	2121.9	2086.1	1677.5
32.5°	1626.1	1636.3	1618.7	1608.5	1605.8	1649.1	1865.6	2302.5	2340.4	2310.0	1809.4
35°	1786.4	1780.3	1759.4	1749.9	1713.4	1785.1	2010.3	2484.5	2583.9	2529.8	1969.1
37.5°	1927.8	1918.3	1917.0	1864.2	1873.0	1931.9	2133.4	2622.5	2820.0	2804.4	2137.5
40°	2059.7	2068.5	2082.7	2052.9	2039.4	2104.3	2276.8	2728.0	3003.3	2997.2	2267.4
42.5°	2201.1	2193.0	2218.0	2193.0	2172.7	2264.7	2432.4	2801.1	3164.3	3114.2	2403.3
45°	2406.0	2380.3	2389.1	2391.1	2376.3	2410.1	2496.7	2853.8	3277.3	3271.8	2502.8
47.5°	2577.2	2577.8	2563.0	2551.5	2506.1	2540.0	2568.4	2887.0	3407.1	3398.3	2541.3
50°	2640.7	2632.0	2675.2	2700.3	2703.0	2634.0	2624.5	2905.2	3475.5	3436.9	2579.9
52.5°	2412.1	2420.2	2488.6	2637.4	2723.3	2730.7	2690.1	2943.1	3503.2	3495.1	2611.0
55°	1941.3	1980.6	2092.8	2264.7	2468.3	2692.2	2761.2	2982.3	3518.1	3511.3	2749.0
56°	1706.6	1737.0	1883.2	2017.8	2273.5	2552.1	2716.5	3024.3	3529.6	3561.4	2781.4
57.5°	1373.8	1409.0	1513.8	1666.7	1968.4	2285.6	2593.4	2972.9	3484.9	3497.1	2805.1
60°	859.1	862.4	988.3	1089.0	1301.4	1611.2	1979.2	2586.6	3225.2	3207.6	2519.7
62.5°	563.5	564.1	678.5	761.0	857.7	928.7	1164.8	1715.4	2379.6	2348.5	1793.9
65°	395.7	404.5	493.1	603.4	642.6	605.4	598.0	904.4	1329.2	1284.5	963.9
67.5°	289.5	290.2	368.6	487.0	543.8	460.6	374.1	441.7	526.3	524.9	446.4
70°	191.4	199.5	259.7	363.9	428.9	370.0	305.7	315.9	334.8	334.8	332.1
72.5°	111.6	119.1	159.0	230.7	240.8	231.3	242.2	270.6	282.7	282.1	278.7
75°	63.6	67.0	75.8	96.1	119.7	141.4	177.9	205.0	217.1	224.6	215.8
77.5°	37.2	39.2	44.6	54.8	62.2	76.4	96.7	115.7	131.9	129.9	131.2
80°	19.6	19.6	25.0	32.5	43.3	54.1	64.3	75.1	83.9	85.9	87.9
82.5°	11.5	12.2	16.2	23.7	31.1	38.6	49.4	56.8	64.9	65.6	67.0
85°	6.1	6.8	10.1	15.6	21.0	23.7	24.4	23.0	25.0	23.7	27.1
87.5°	2.0	2.0	3.4	2.7	2.7	3.4	4.1	4.1	5.4	5.4	5.4
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°	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4	998.4
2.5°	1003.8	1003.8	992.3	970.7	967.3	958.5	950.4	949.7	943.6	938.2	935.5
5°	1022.7	1001.8	984.9	965.3	942.3	931.4	919.3	905.7	900.3	905.7	905.1
7.5°	1044.4	1026.8	976.1	939.5	913.2	902.3	888.8	874.6	876.0	876.0	866.5
10°	1065.4	1041.7	960.5	913.8	875.3	867.2	859.7	865.1	871.9	873.3	867.2
12.5°	1100.5	1047.1	953.1	888.1	863.8	846.2	850.9	865.8	880.0	876.0	880.7
15°	1126.9	1051.8	919.3	861.8	831.3	839.4	856.3	866.5	890.2	887.5	892.2
17.5°	1152.6	1054.5	886.1	826.6	813.7	836.1	848.9	878.0	885.4	901.7	907.8
20°	1205.4	1060.0	852.3	804.9	800.9	826.6	848.9	862.4	878.7	892.9	892.9
22.5°	1232.4	1057.2	830.0	776.5	789.4	805.6	825.9	848.9	848.9	862.4	863.1
25°	1266.3	1046.4	794.8	763.0	772.5	788.0	811.0	802.9	811.7	811.7	822.5
27.5°	1304.8	1023.4	764.4	738.7	757.6	774.5	777.9	772.5	762.3	761.0	756.9
30°	1335.9	995.0	742.0	730.5	746.1	755.6	744.7	733.2	715.7	714.3	704.8
32.5°	1378.5	959.8	714.3	710.2	727.8	728.5	725.1	707.5	681.8	671.0	660.2
35°	1450.2	939.5	693.3	699.4	704.8	702.8	696.7	677.8	652.1	647.3	643.3
37.5°	1503.0	924.7	671.7	679.1	683.9	686.6	668.3	647.3	648.0	638.5	635.8
40°	1562.5	915.2	654.1	657.5	658.2	667.0	644.6	634.5	639.2	633.1	637.2
42.5°	1639.0	917.9	635.8	633.1	646.0	642.6	631.8	618.2	621.0	602.7	605.4
45°	1679.6	936.2	625.0	612.8	627.0	626.4	612.2	599.3	583.1	547.9	549.3
47.5°	1706.6	940.9	599.3	591.2	606.1	614.9	598.6	568.9	545.9	520.8	514.8
50°	1734.3	949.7	587.1	570.2	576.3	597.3	577.0	548.6	526.3	503.9	507.3
52.5°	1758.7	966.6	563.5	538.4	549.3	572.3	561.4	526.9	502.6	484.3	478.9
55°	1866.9	1004.5	523.5	491.1	516.8	545.9	539.8	497.8	471.5	462.0	460.6
56°	1883.8	1005.8	502.6	474.8	498.5	537.1	529.6	485.0	461.3	446.4	447.1
57.5°	1886.5	989.6	472.8	460.0	480.3	524.2	514.8	474.8	442.4	428.9	424.8
60°	1659.9	772.5	435.6	427.5	451.2	485.0	481.6	447.1	410.6	395.0	402.5
62.5°	1131.7	566.2	406.5	405.2	417.4	450.5	441.7	410.6	380.1	370.0	365.3
65°	658.8	429.5	378.1	372.7	382.9	400.4	406.5	374.1	342.3	335.5	333.5
67.5°	388.9	355.1	341.6	332.8	329.4	340.2	345.0	326.0	294.2	284.8	292.9
70°	325.4	315.9	316.6	301.7	293.6	286.1	282.1	265.2	238.8	226.6	223.2
72.5°	280.7	276.7	274.0	260.4	253.0	236.1	218.5	201.6	182.0	171.8	172.5
75°	214.4	213.1	214.4	207.7	194.8	181.3	165.0	143.4	128.5	115.7	118.4
77.5°	127.8	131.9	133.9	131.2	125.8	113.6	103.5	89.3	75.1	64.9	63.6
80°	87.9	91.3	94.7	91.3	85.9	77.1	66.3	55.5	45.3	39.9	38.6
82.5°	67.0	70.3	72.4	69.0	62.2	52.8	45.3	37.9	29.8	24.4	23.0
85°	24.4	27.7	27.1	32.5	35.2	33.8	29.1	22.3	16.9	12.2	11.5
87.5°	6.8	6.1	6.8	6.8	6.8	6.1	5.4	5.4	5.4	3.4	2.7
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)