

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: P527306

Luminaire Tested: **GALN-SA2B-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10056 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

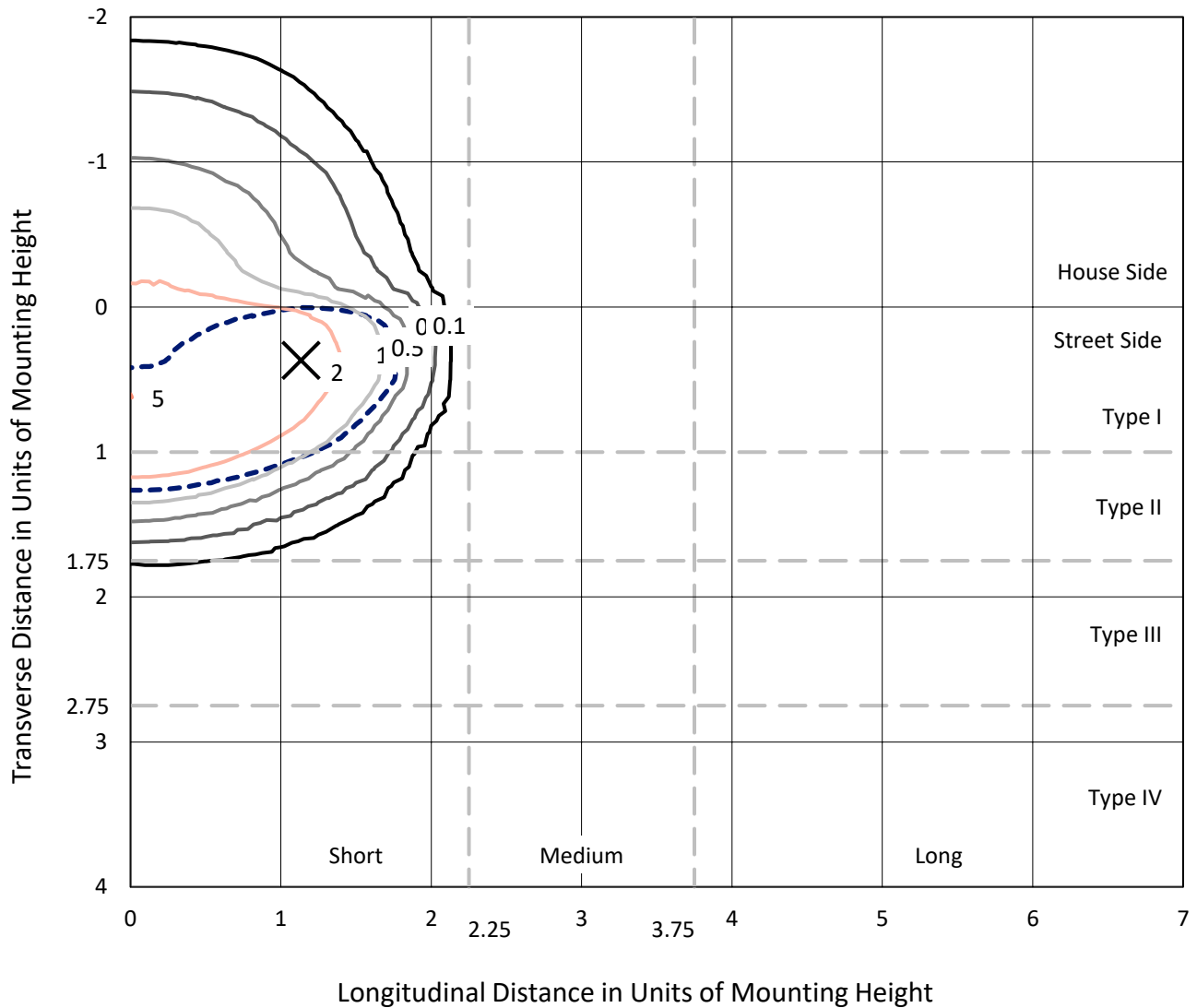
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

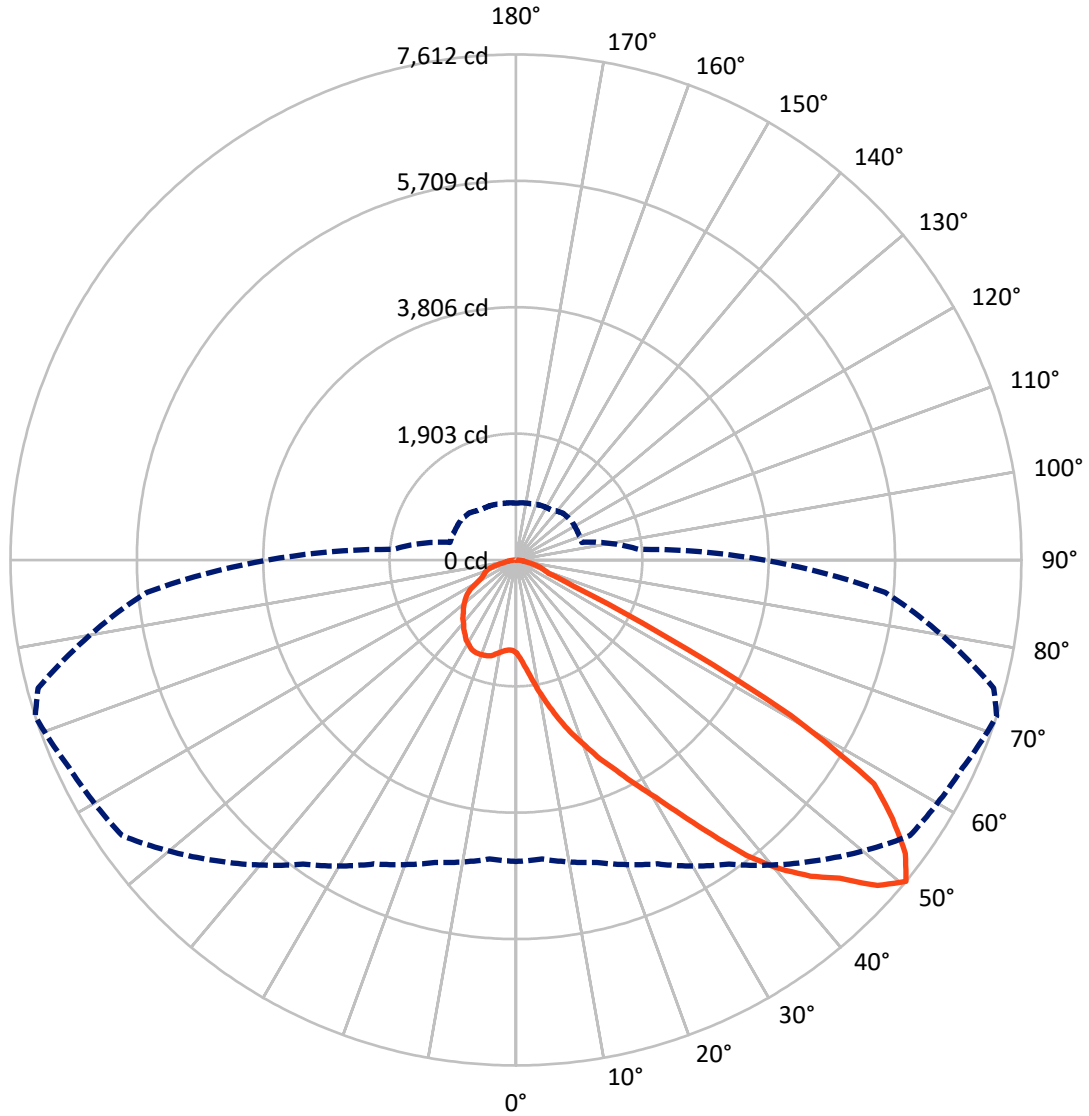
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2303.9	0.0	2303.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7752.1	0.0	7752.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	10056.0	0.0	10056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	1.6
10°-20°	615.6	6.1
20°-30°	1193.5	11.9
30°-40°	1977.3	19.7
40°-50°	2766.6	27.5
50°-60°	2334.0	23.2
60°-70°	711.4	7.1
70°-80°	249.6	2.5
80°-90°	43.4	0.4
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°	10056.0	100.0
0°-180°	10056.0	100.0

Coefficient of Utilization

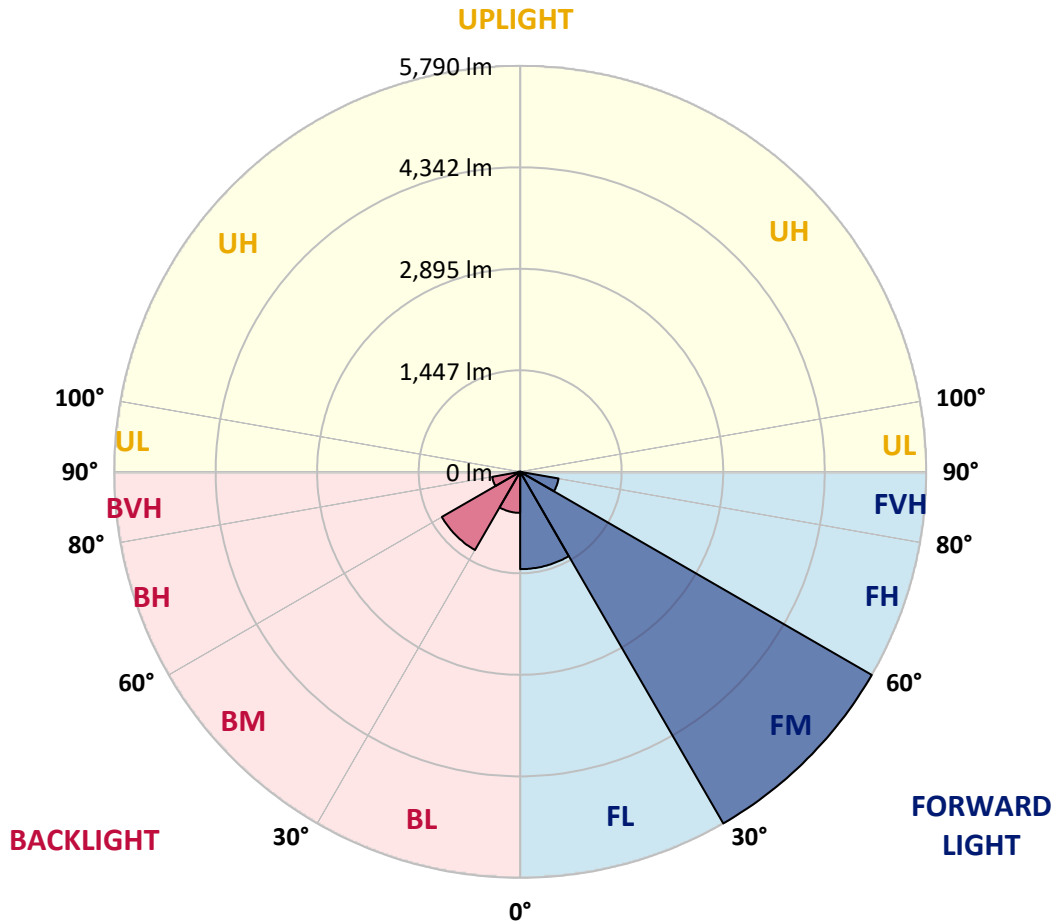


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.1	13.8			
FM (30°-60°)	5789.5	57.6			
FH (60°-80°)	555.1	5.5			G0/660
FVH (80°-90°)	19.4	0.2			G1/100
BL (0°-30°)	585.7	5.8	B2/1000		
BM (30°-60°)	1288.4	12.8	B2/2500		
BH (60°-80°)	405.9	4.0	B1/500		G1/500
BVH (80°-90°)	24.0	0.2			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°	72°	75°	85°
0°	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1800.6	1789.4	1755.8	1744.6	1704.7	1632.6	1607.7	1534.3	1503.2	1474.5	1440.9
5°	2277.1	2224.9	2221.1	2157.7	2065.6	2012.1	1852.8	1745.8	1647.5	1597.7	1505.6
7.5°	2580.8	2582.0	2582.0	2529.7	2456.3	2320.7	2177.6	1984.7	1836.6	1763.2	1606.4
10°	2869.4	2844.6	2830.9	2825.9	2776.1	2644.2	2491.2	2252.3	2049.4	1963.6	1682.3
12.5°	3073.5	3052.4	3083.5	3067.3	3031.2	2945.3	2801.0	2528.5	2274.7	2158.9	1804.3
15°	3170.6	3185.5	3210.4	3255.2	3239.0	3206.7	3047.4	2812.2	2517.3	2386.6	1912.5
17.5°	3319.9	3278.8	3308.7	3364.7	3409.5	3394.6	3303.7	3017.5	2757.5	2596.9	2058.1
20°	3424.4	3400.8	3415.7	3480.4	3514.0	3598.6	3551.3	3286.3	2987.7	2818.4	2229.9
22.5°	3723.1	3688.2	3639.7	3649.6	3662.1	3721.8	3733.0	3581.2	3255.2	3076.0	2392.9
25°	4091.4	4059.0	4001.8	3943.3	3907.2	3896.0	3934.6	3812.7	3511.5	3326.1	2568.3
27.5°	4497.0	4442.3	4406.2	4285.5	4188.4	4173.5	4154.8	4088.9	3815.1	3614.8	2766.2
30°	4891.5	4847.9	4799.4	4606.5	4505.8	4489.6	4397.5	4416.2	4144.9	3922.2	2990.1
32.5°	5190.1	5193.9	5083.1	4937.5	4843.0	4757.1	4723.5	4777.0	4568.0	4388.8	3240.3
35°	5431.5	5442.7	5337.0	5205.1	5103.0	5162.8	5147.8	5172.7	5073.2	4854.2	3531.4
37.5°	5666.7	5610.7	5497.5	5434.0	5380.5	5478.8	5605.7	5626.9	5645.6	5388.0	3869.9
40°	5705.3	5710.3	5644.3	5689.1	5621.9	5770.0	6064.9	6037.5	6113.4	5888.2	4237.0
42.5°	5650.5	5661.7	5687.9	5751.3	5913.1	6091.0	6529.0	6417.1	6509.1	6308.8	4594.1
45°	5560.9	5514.9	5547.3	5788.7	6068.6	6464.3	6953.4	6866.3	6836.4	6668.4	5019.7
47.5°	5132.9	5180.2	5281.0	5578.4	5999.0	6529.0	7254.5	7234.6	7324.2	7206.0	5406.7
50°	4539.3	4520.7	4714.8	5049.5	5592.1	6402.1	7238.3	7418.7	7611.6	7447.4	5579.6
52.5°	3399.5	3499.1	3665.8	4081.4	4855.4	5710.3	6884.9	7186.1	7342.8	7308.0	5440.2
55°	2149.0	2178.8	2279.6	2773.6	3470.5	4582.9	5901.9	6600.0	6879.9	7010.6	5312.1
57.5°	1044.0	988.0	1111.2	1508.1	2004.6	3082.2	4551.8	5748.8	6357.3	6593.8	5033.3
60°	545.0	566.2	614.7	756.6	1036.5	1600.2	2837.1	3831.3	4760.8	5124.2	3815.1
62.5°	451.7	459.2	491.5	562.4	689.4	920.8	1448.4	1867.8	2427.7	2755.0	2170.1
65°	383.3	387.0	421.8	469.1	550.0	648.3	745.4	780.2	944.5	969.3	771.5
67.5°	319.8	323.5	360.9	405.7	457.9	484.0	508.9	506.4	525.1	517.6	516.4
70°	246.4	250.1	288.7	336.0	362.1	347.2	424.3	441.7	449.2	455.4	465.4
72.5°	177.9	185.4	215.3	248.9	235.2	270.0	349.7	375.8	385.7	389.5	401.9
75°	129.4	131.9	139.4	129.4	149.3	187.9	246.4	278.7	291.2	294.9	313.6
77.5°	57.2	58.5	59.7	74.7	95.8	117.0	146.8	173.0	190.4	195.4	200.3
80°	29.9	31.1	38.6	51.0	68.4	85.9	107.0	121.9	133.1	134.4	139.4
82.5°	18.7	19.9	27.4	36.1	48.5	63.5	78.4	90.8	99.5	100.8	102.0
85°	8.7	11.2	16.2	22.4	32.4	41.1	42.3	36.1	38.6	39.8	37.3
87.5°	2.5	3.7	5.0	3.7	5.0	5.0	6.2	7.5	7.5	7.5	8.7
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°	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1422.3	1411.1	1367.5	1351.4	1309.0	1316.5	1294.1	1292.9	1287.9	1286.6	1285.4
5°	1457.1	1422.3	1370.0	1330.2	1306.6	1304.1	1287.9	1287.9	1292.9	1296.6	1287.9
7.5°	1514.4	1474.5	1386.2	1348.9	1327.7	1324.0	1312.8	1304.1	1315.3	1311.5	1301.6
10°	1580.3	1510.6	1417.3	1384.9	1350.1	1341.4	1341.4	1345.1	1326.5	1332.7	1322.7
12.5°	1653.7	1560.4	1457.1	1419.8	1378.7	1373.7	1371.3	1343.9	1353.8	1348.9	1324.0
15°	1747.1	1617.6	1508.1	1444.7	1409.8	1387.4	1355.1	1350.1	1343.9	1331.4	1320.2
17.5°	1847.8	1679.9	1531.8	1452.1	1399.9	1383.7	1358.8	1332.7	1314.0	1316.5	1307.8
20°	1933.7	1737.1	1540.5	1459.6	1392.4	1361.3	1322.7	1306.6	1286.6	1285.4	1284.2
22.5°	2035.7	1814.2	1552.9	1439.7	1370.0	1337.7	1311.5	1282.9	1269.2	1251.8	1260.5
25°	2157.7	1844.1	1555.4	1428.5	1353.8	1296.6	1282.9	1251.8	1246.8	1221.9	1226.9
27.5°	2246.0	1860.3	1535.5	1393.7	1316.5	1273.0	1248.1	1225.7	1217.0	1198.3	1193.3
30°	2364.2	1885.2	1493.2	1350.1	1279.2	1230.7	1215.7	1210.7	1185.9	1165.9	1163.5
32.5°	2498.6	1901.3	1465.8	1305.3	1240.6	1203.3	1210.7	1187.1	1156.0	1138.6	1133.6
35°	2605.6	1907.6	1397.4	1254.3	1214.5	1190.8	1182.1	1177.1	1132.3	1116.2	1103.7
37.5°	2768.7	1893.9	1340.2	1218.2	1185.9	1177.1	1169.7	1136.1	1085.1	1061.4	1044.0
40°	2959.0	1890.2	1266.7	1167.2	1158.5	1168.4	1146.0	1093.8	1022.8	996.7	984.3
42.5°	3142.0	1916.3	1220.7	1139.8	1128.6	1132.3	1101.2	1022.8	988.0	973.1	953.2
45°	3448.1	1971.0	1144.8	1097.5	1092.5	1090.0	1052.7	970.6	950.7	932.0	928.3
47.5°	3724.3	1934.9	1096.3	1054.0	1058.9	1045.2	965.6	939.5	917.1	898.4	892.2
50°	3740.5	1849.1	1027.8	1020.4	1021.6	998.0	922.1	904.6	876.0	863.6	854.9
52.5°	3655.9	1708.5	964.4	966.9	970.6	932.0	868.5	856.1	832.5	815.0	810.1
55°	3418.2	1489.5	902.1	912.1	922.1	848.6	828.7	797.6	779.0	754.1	755.3
57.5°	3011.3	1199.5	815.0	831.2	852.4	771.5	756.6	718.0	690.6	670.7	668.2
60°	2018.3	853.6	684.4	690.6	737.9	705.5	704.3	665.7	628.4	611.0	601.0
62.5°	1190.8	652.0	591.1	584.8	583.6	602.3	633.4	619.7	571.2	537.6	547.5
65°	623.4	563.7	550.0	528.8	516.4	511.4	535.1	541.3	508.9	472.8	470.4
67.5°	523.9	523.9	512.7	505.2	487.8	466.6	451.7	431.8	426.8	416.9	404.4
70°	476.6	489.0	485.3	467.9	452.9	429.3	390.7	358.4	327.3	316.1	323.5
72.5°	415.6	428.1	428.1	419.3	399.4	363.3	326.0	288.7	262.6	242.6	240.2
75°	319.8	326.0	340.9	331.0	304.9	282.5	243.9	205.3	180.4	161.8	158.0
77.5°	204.1	214.0	214.0	212.8	194.1	173.0	148.1	120.7	102.0	88.3	84.6
80°	135.6	141.9	146.8	141.9	129.4	113.2	94.6	75.9	62.2	51.0	48.5
82.5°	99.5	107.0	110.7	105.8	93.3	80.9	67.2	53.5	39.8	31.1	28.6
85°	38.6	39.8	44.8	53.5	52.3	51.0	41.1	29.9	22.4	16.2	14.9
87.5°	10.0	8.7	10.0	10.0	8.7	7.5	7.5	7.5	7.5	3.7	5.0
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)