

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: P527852

Luminaire Tested: **GALN-SA2D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527852
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-SA2D-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 10050 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

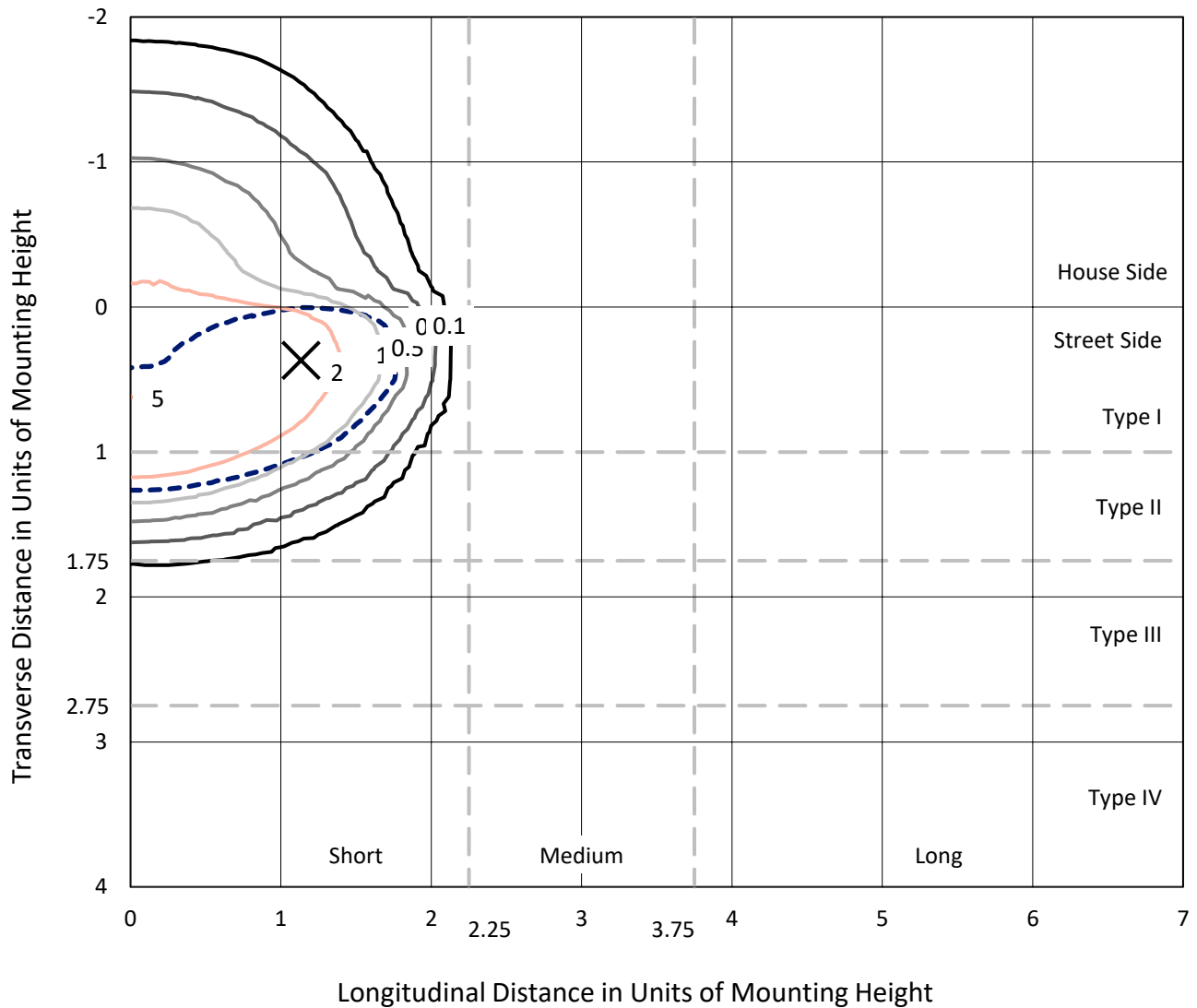
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

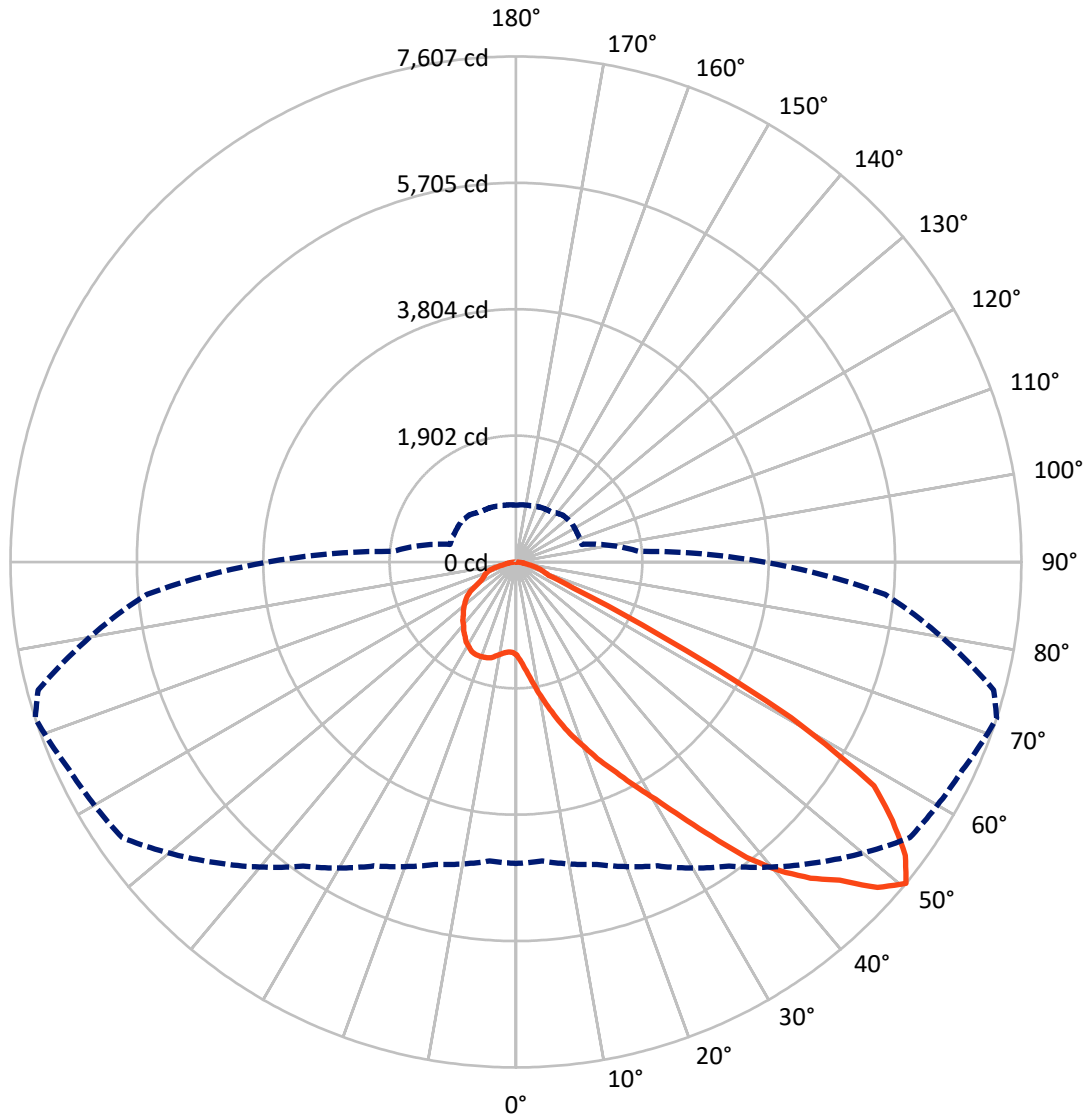
✕ Max cd
 - - - 1/2 Max cd



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	2302.5	0.0	2302.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7747.5	0.0	7747.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	10050.0	0.0	10050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.6
10°-20°	615.2	6.1
20°-30°	1192.8	11.9
30°-40°	1976.1	19.7
40°-50°	2765.0	27.5
50°-60°	2332.6	23.2
60°-70°	711.0	7.1
70°-80°	249.4	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°	10050.0	100.0
0°-180°	10050.0	100.0

Coefficient of Utilization

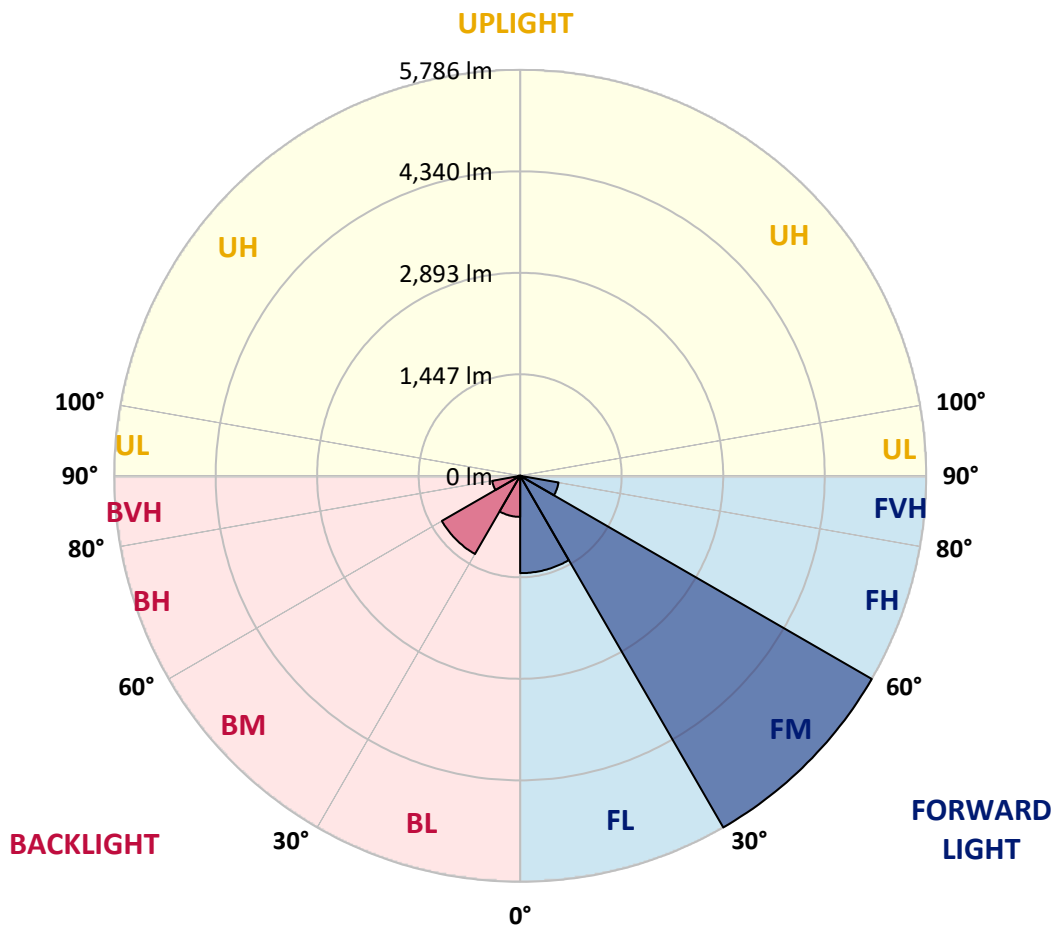


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.3	13.8			
FM (30°-60°)	5786.1	57.6			
FH (60°-80°)	554.7	5.5			G0/660
FVH (80°-90°)	19.4	0.2			G1/100
BL (0°-30°)	585.3	5.8	B2/1000		
BM (30°-60°)	1287.6	12.8	B2/2500		
BH (60°-80°)	405.7	4.0	B1/500		G1/500
BVH (80°-90°)	23.9	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°	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0
2.5°	1799.5	1788.3	1754.7	1743.5	1703.7	1631.6	1606.7	1533.4	1502.3	1473.7	1440.1
5°	2275.8	2223.5	2219.8	2156.4	2064.4	2010.9	1851.7	1744.8	1646.5	1596.8	1504.8
7.5°	2579.2	2580.5	2580.5	2528.2	2454.9	2319.3	2176.3	1983.5	1835.5	1762.2	1605.5
10°	2867.7	2842.9	2829.2	2824.2	2774.5	2642.6	2489.7	2250.9	2048.2	1962.4	1681.3
12.5°	3071.7	3050.5	3081.6	3065.5	3029.4	2943.6	2799.3	2527.0	2273.3	2157.6	1803.2
15°	3168.7	3183.6	3208.5	3253.2	3237.1	3204.7	3045.6	2810.5	2515.8	2385.2	1911.4
17.5°	3317.9	3276.9	3306.7	3362.7	3407.5	3392.5	3301.7	3015.7	2755.8	2595.4	2056.9
20°	3422.4	3398.7	3413.7	3478.3	3511.9	3596.5	3549.2	3284.3	2985.9	2816.7	2228.5
22.5°	3720.8	3686.0	3637.5	3647.5	3659.9	3719.6	3730.8	3579.1	3253.2	3074.2	2391.4
25°	4088.9	4056.6	3999.4	3941.0	3904.9	3893.7	3932.3	3810.4	3509.4	3324.1	2566.8
27.5°	4494.4	4439.6	4403.6	4282.9	4185.9	4171.0	4152.4	4086.5	3812.9	3612.6	2764.5
30°	4888.6	4845.1	4796.6	4603.8	4503.1	4486.9	4394.9	4413.5	4142.4	3919.8	2988.4
32.5°	5187.0	5190.8	5080.1	4934.6	4840.1	4754.3	4720.7	4774.2	4565.2	4386.2	3238.3
35°	5428.3	5439.5	5333.8	5202.0	5100.0	5159.7	5144.8	5169.6	5070.1	4851.3	3529.3
37.5°	5663.3	5607.4	5494.2	5430.8	5377.3	5475.6	5602.4	5623.5	5642.2	5384.8	3867.6
40°	5701.9	5706.9	5641.0	5685.7	5618.6	5766.6	6061.3	6033.9	6109.8	5884.7	4234.4
42.5°	5647.2	5658.4	5684.5	5747.9	5909.6	6087.4	6525.1	6413.2	6505.3	6305.0	4591.4
45°	5557.6	5511.6	5544.0	5785.2	6065.0	6460.5	6949.2	6862.2	6832.3	6664.4	5016.7
47.5°	5129.8	5177.1	5277.8	5575.0	5995.4	6525.1	7250.2	7230.3	7319.8	7201.7	5403.4
50°	4536.6	4518.0	4712.0	5046.5	5588.7	6398.3	7234.0	7414.3	7607.1	7442.9	5576.3
52.5°	3397.5	3497.0	3663.6	4079.0	4852.5	5706.9	6880.8	7181.8	7338.5	7303.6	5437.0
55°	2147.7	2177.5	2278.3	2772.0	3468.4	4580.2	5898.4	6596.0	6875.8	7006.4	5308.9
57.5°	1043.4	987.4	1110.5	1507.2	2003.4	3080.4	4549.1	5745.4	6353.5	6589.8	5030.3
60°	544.7	565.8	614.3	756.1	1035.9	1599.3	2835.4	3829.0	4758.0	5121.1	3812.9
62.5°	451.4	458.9	491.2	562.1	689.0	920.3	1447.5	1866.6	2426.3	2753.3	2168.8
65°	383.0	386.8	421.6	468.8	549.7	647.9	744.9	779.7	943.9	968.8	771.0
67.5°	319.6	323.3	360.6	405.4	457.6	483.8	508.6	506.1	524.8	517.3	516.1
70°	246.2	250.0	288.5	335.8	361.9	347.0	424.1	441.5	448.9	455.2	465.1
72.5°	177.8	185.3	215.1	248.7	235.0	269.9	349.5	375.6	385.5	389.2	401.7
75°	129.3	131.8	139.3	129.3	149.2	187.8	246.2	278.6	291.0	294.7	313.4
77.5°	57.2	58.4	59.7	74.6	95.8	116.9	146.7	172.9	190.3	195.2	200.2
80°	29.8	31.1	38.6	51.0	68.4	85.8	106.9	121.9	133.1	134.3	139.3
82.5°	18.7	19.9	27.4	36.1	48.5	63.4	78.3	90.8	99.5	100.7	102.0
85°	8.7	11.2	16.2	22.4	32.3	41.0	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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CATALOG NUMBER: GALN-SA2D-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0	1399.0
2.5°	1421.4	1410.2	1366.7	1350.5	1308.3	1315.7	1293.3	1292.1	1287.1	1285.9	1284.6
5°	1456.3	1421.4	1369.2	1329.4	1305.8	1303.3	1287.1	1287.1	1292.1	1295.8	1287.1
7.5°	1513.5	1473.7	1385.4	1348.1	1326.9	1323.2	1312.0	1303.3	1314.5	1310.8	1300.8
10°	1579.4	1509.7	1416.5	1384.1	1349.3	1340.6	1340.6	1344.3	1325.7	1331.9	1321.9
12.5°	1652.7	1559.5	1456.3	1418.9	1377.9	1372.9	1370.4	1343.1	1353.0	1348.1	1323.2
15°	1746.0	1616.7	1507.2	1443.8	1409.0	1386.6	1354.3	1349.3	1343.1	1330.6	1319.5
17.5°	1846.7	1678.9	1530.9	1451.3	1399.0	1382.9	1358.0	1331.9	1313.2	1315.7	1307.0
20°	1932.5	1736.1	1539.6	1458.7	1391.6	1360.5	1321.9	1305.8	1285.9	1284.6	1283.4
22.5°	2034.5	1813.2	1552.0	1438.8	1369.2	1336.9	1310.8	1282.1	1268.5	1251.1	1259.8
25°	2156.4	1843.0	1554.5	1427.6	1353.0	1295.8	1282.1	1251.1	1246.1	1221.2	1226.2
27.5°	2244.7	1859.2	1534.6	1392.8	1315.7	1272.2	1247.3	1224.9	1216.2	1197.6	1192.6
30°	2362.8	1884.0	1492.3	1349.3	1278.4	1229.9	1215.0	1210.0	1185.1	1165.2	1162.8
32.5°	2497.1	1900.2	1465.0	1304.5	1239.9	1202.6	1210.0	1186.4	1155.3	1137.9	1132.9
35°	2604.1	1906.4	1396.6	1253.5	1213.7	1190.1	1181.4	1176.4	1131.7	1115.5	1103.1
37.5°	2767.0	1892.8	1339.4	1217.5	1185.1	1176.4	1169.0	1135.4	1084.4	1060.8	1043.4
40°	2957.3	1889.0	1266.0	1166.5	1157.8	1167.7	1145.4	1093.1	1022.2	996.1	983.7
42.5°	3140.1	1915.1	1220.0	1139.1	1127.9	1131.7	1100.6	1022.2	987.4	972.5	952.6
45°	3446.0	1969.9	1144.1	1096.9	1091.9	1089.4	1052.1	970.0	950.1	931.5	927.7
47.5°	3722.1	1933.8	1095.6	1053.3	1058.3	1044.6	965.0	938.9	916.5	897.9	891.7
50°	3738.3	1848.0	1027.2	1019.7	1021.0	997.4	921.5	904.1	875.5	863.1	854.4
52.5°	3653.7	1707.5	963.8	966.3	970.0	931.5	868.0	855.6	832.0	814.6	809.6
55°	3416.2	1488.6	901.6	911.6	921.5	848.1	828.2	797.1	778.5	753.6	754.9
57.5°	3009.5	1198.8	814.6	830.7	851.9	771.0	756.1	717.6	690.2	670.3	667.8
60°	2017.1	853.1	684.0	690.2	737.5	705.1	703.9	665.3	628.0	610.6	600.7
62.5°	1190.1	651.6	590.7	584.5	583.2	601.9	633.0	619.3	570.8	537.2	547.2
65°	623.0	563.3	549.7	528.5	516.1	511.1	534.7	541.0	508.6	472.6	470.1
67.5°	523.6	523.6	512.4	504.9	487.5	466.3	451.4	431.5	426.6	416.6	404.2
70°	476.3	488.7	485.0	467.6	452.7	429.0	390.5	358.2	327.1	315.9	323.3
72.5°	415.4	427.8	427.8	419.1	399.2	363.1	325.8	288.5	262.4	242.5	240.0
75°	319.6	325.8	340.7	330.8	304.7	282.3	243.7	205.2	180.3	161.7	157.9
77.5°	203.9	213.9	213.9	212.7	194.0	172.9	148.0	120.6	102.0	88.3	84.6
80°	135.6	141.8	146.7	141.8	129.3	113.2	94.5	75.9	62.2	51.0	48.5
82.5°	99.5	106.9	110.7	105.7	93.3	80.8	67.2	53.5	39.8	31.1	28.6
85°	38.6	39.8	44.8	53.5	52.2	51.0	41.0	29.8	22.4	16.2	14.9
87.5°	9.9	8.7	9.9	9.9	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)