

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: P526810

Luminaire Tested: **GALN-SA1D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526810
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-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 6116 lumens
Efficiency: N/A
Efficacy: 94.1 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

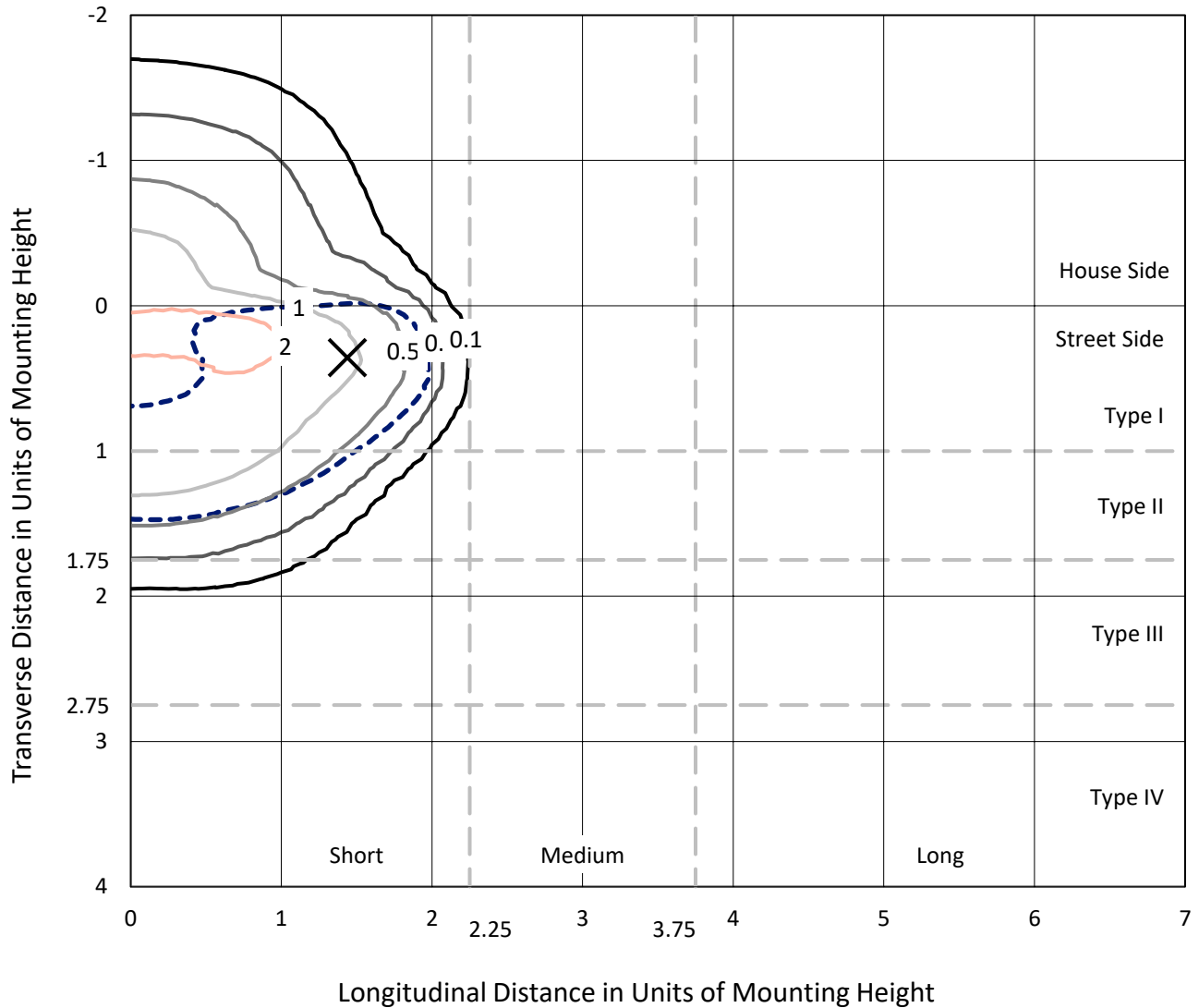
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

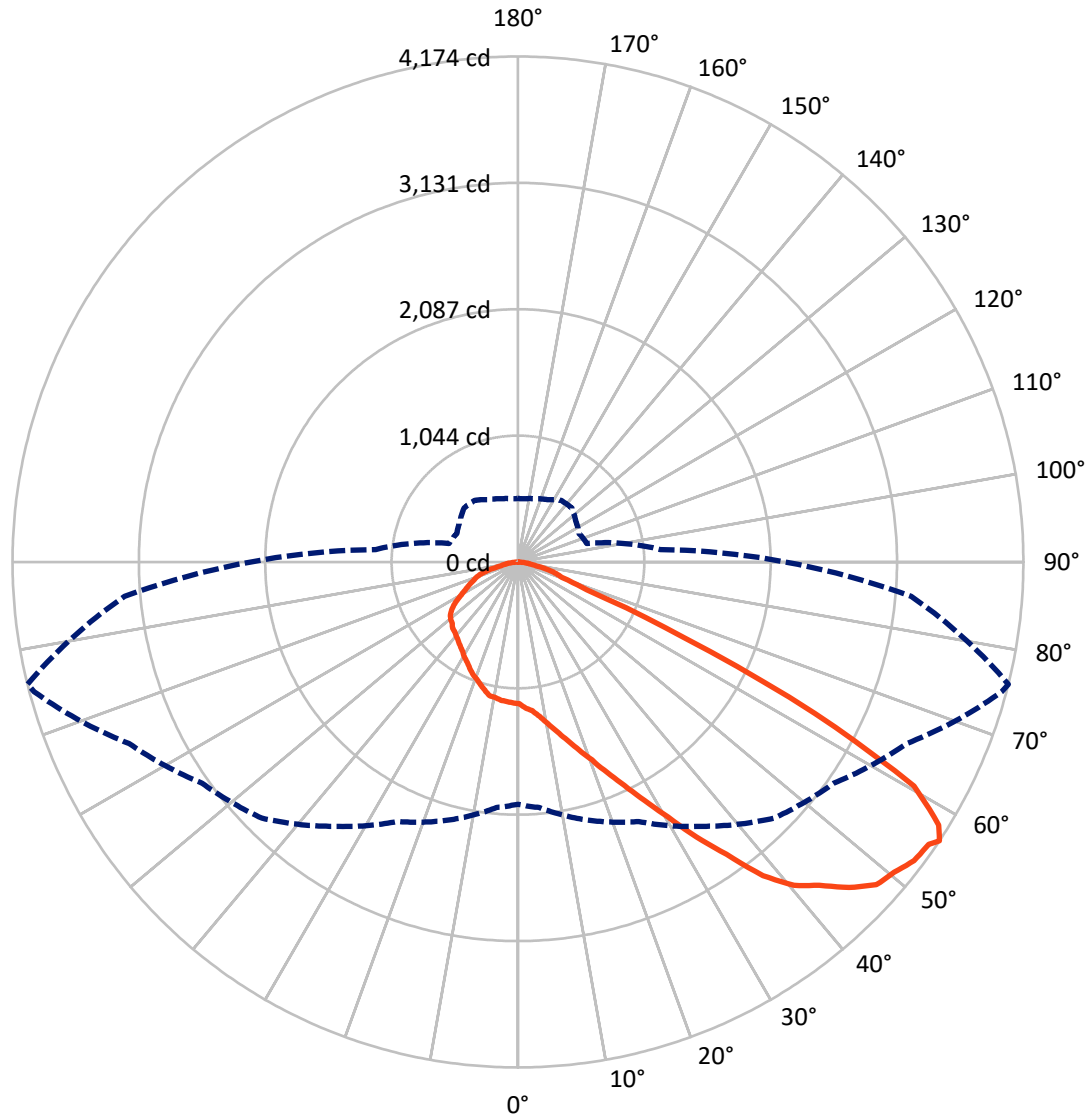
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.4	0.0	1644.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4471.6	0.0	4471.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	6116.0	0.0	6116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.9
10°-20°	364.5	6.0
20°-30°	637.6	10.4
30°-40°	998.2	16.3
40°-50°	1452.1	23.7
50°-60°	1596.0	26.1
60°-70°	712.4	11.6
70°-80°	205.8	3.4
80°-90°	33.4	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°	6116.0	100.0
0°-180°	6116.0	100.0

Coefficient of Utilization



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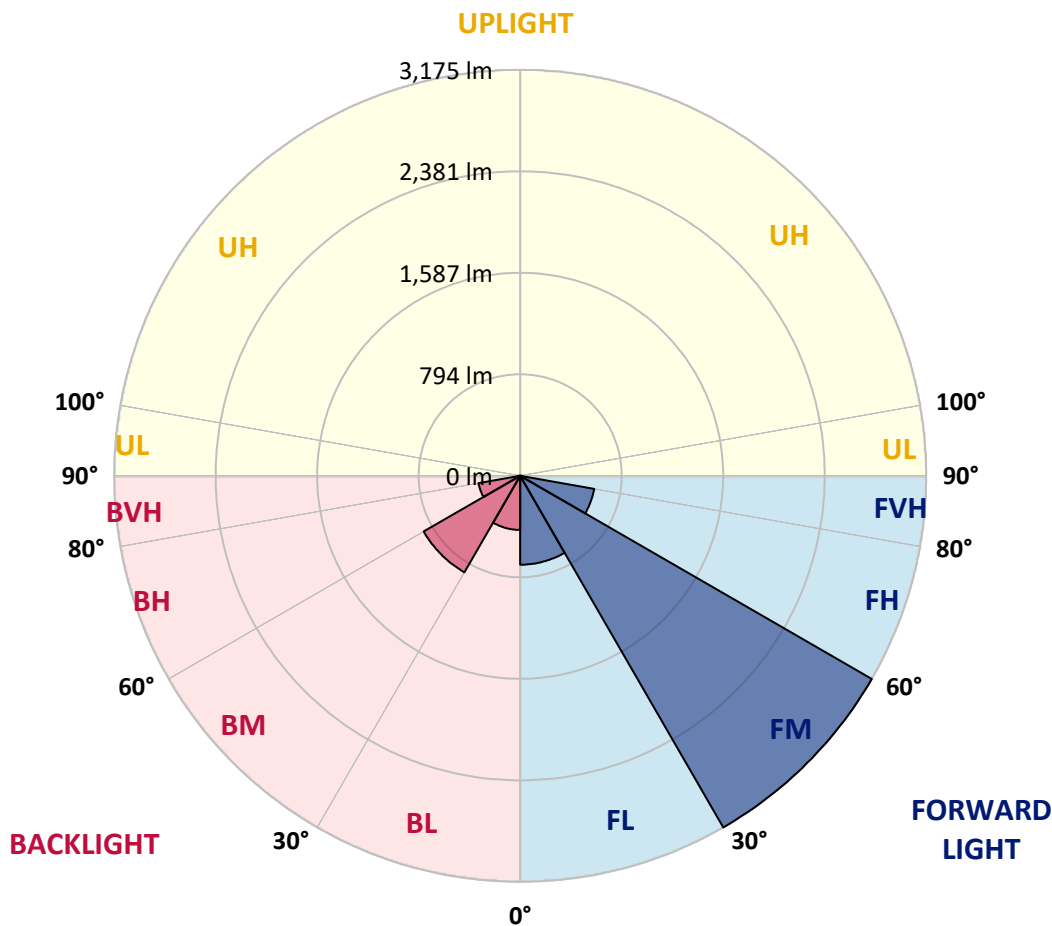
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.0	11.4			
FM (30°-60°)	3174.9	51.9			
FH (60°-80°)	587.3	9.6			G0/660
FVH (80°-90°)	14.4	0.2			G1/100
BL (0°-30°)	423.1	6.9	B1/500		
BM (30°-60°)	871.4	14.2	B1/1000		
BH (60°-80°)	330.9	5.4	B1/500		G1/500
BVH (80°-90°)	19.0	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°	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2
2.5°	1289.1	1268.5	1266.9	1261.4	1264.6	1250.3	1235.2	1215.4	1194.8	1207.5	1177.4
5°	1379.5	1351.8	1362.9	1343.8	1346.2	1327.2	1296.3	1273.3	1247.9	1232.9	1211.4
7.5°	1411.2	1413.6	1421.5	1418.4	1402.5	1402.5	1381.9	1341.5	1297.1	1288.3	1252.7
10°	1454.1	1454.8	1446.1	1448.5	1470.7	1460.4	1442.2	1424.7	1367.6	1357.3	1293.9
12.5°	1469.1	1454.8	1469.1	1481.8	1508.0	1522.2	1518.3	1505.6	1444.5	1437.4	1344.6
15°	1471.5	1462.8	1474.7	1503.2	1526.2	1586.5	1616.6	1607.9	1527.0	1527.8	1401.7
17.5°	1460.4	1472.3	1477.0	1501.6	1554.7	1611.0	1698.2	1710.1	1643.5	1633.2	1473.9
20°	1475.5	1466.7	1473.1	1495.3	1565.8	1653.8	1768.0	1846.5	1752.9	1745.8	1548.4
22.5°	1533.3	1521.4	1519.9	1534.1	1584.9	1676.0	1841.7	1982.9	1886.1	1890.1	1641.2
25°	1578.5	1584.9	1579.3	1578.5	1610.2	1709.3	1939.3	2145.4	2066.9	2043.9	1750.6
27.5°	1656.2	1671.3	1660.2	1675.3	1668.1	1759.3	2009.0	2325.4	2261.9	2231.0	1849.7
30°	1764.0	1772.0	1761.7	1761.7	1740.3	1829.1	2072.5	2513.3	2487.1	2445.1	1966.2
32.5°	1906.0	1917.9	1897.2	1885.4	1882.2	1932.9	2186.6	2698.8	2743.2	2707.5	2120.8
35°	2093.9	2086.7	2062.2	2051.1	2008.2	2092.3	2356.3	2912.1	3028.6	2965.2	2307.9
37.5°	2259.6	2248.5	2246.9	2185.0	2195.3	2264.3	2500.6	3073.8	3305.3	3287.1	2505.3
40°	2414.2	2424.5	2441.1	2406.2	2390.4	2466.5	2668.7	3197.5	3520.2	3513.0	2657.6
42.5°	2579.9	2570.4	2599.7	2570.4	2546.6	2654.4	2851.0	3283.1	3708.9	3650.2	2816.9
45°	2820.1	2790.0	2800.3	2802.7	2785.2	2824.9	2926.3	3345.0	3841.3	3834.9	2933.5
47.5°	3020.7	3021.5	3004.0	2990.6	2937.4	2977.1	3010.4	3383.8	3993.5	3983.2	2978.7
50°	3095.2	3084.9	3135.6	3165.0	3168.2	3087.3	3076.2	3405.2	4073.6	4028.4	3023.9
52.5°	2827.2	2836.7	2916.8	3091.2	3191.9	3200.7	3153.1	3449.6	4106.1	4096.6	3060.3
55°	2275.4	2321.4	2453.0	2654.4	2893.0	3155.5	3236.3	3495.6	4123.5	4115.6	3222.1
56°	2000.3	2036.0	2207.2	2365.0	2664.7	2991.4	3184.0	3544.7	4137.0	4174.3	3260.1
57.5°	1610.2	1651.5	1774.4	1953.5	2307.1	2679.0	3039.7	3484.5	4084.7	4098.9	3287.9
60°	1006.9	1010.9	1158.3	1276.5	1525.4	1888.5	2319.8	3031.8	3780.2	3759.6	2953.3
62.5°	660.4	661.2	795.2	891.9	1005.3	1088.6	1365.3	2010.6	2789.2	2752.7	2102.6
65°	463.8	474.1	578.0	707.2	753.2	709.6	700.9	1060.0	1557.9	1505.6	1129.8
67.5°	339.3	340.1	432.1	570.8	637.4	539.9	438.4	517.7	616.8	615.2	523.3
70°	224.4	233.9	304.4	426.5	502.7	433.7	358.4	370.3	392.5	392.5	389.3
72.5°	130.8	139.5	186.3	270.4	282.2	271.1	283.8	317.1	331.4	330.6	326.6
75°	74.5	78.5	88.8	112.6	140.3	165.7	208.5	240.2	254.5	263.2	252.9
77.5°	43.6	46.0	52.3	64.2	72.9	89.6	113.4	135.6	154.6	152.2	153.8
80°	23.0	23.0	29.3	38.1	50.7	63.4	75.3	88.0	98.3	100.7	103.1
82.5°	13.5	14.3	19.0	27.7	36.5	45.2	57.9	66.6	76.1	76.9	78.5
85°	7.1	7.9	11.9	18.2	24.6	27.7	28.5	27.0	29.3	27.7	31.7
87.5°	2.4	2.4	4.0	3.2	3.2	4.0	4.8	4.8	6.3	6.3	6.3
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°	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2	1170.2
2.5°	1176.6	1176.6	1163.1	1137.7	1133.7	1123.4	1113.9	1113.1	1106.0	1099.7	1096.5
5°	1198.8	1174.2	1154.4	1131.4	1104.4	1091.7	1077.5	1061.6	1055.3	1061.6	1060.8
7.5°	1224.1	1203.5	1144.1	1101.2	1070.3	1057.6	1041.8	1025.1	1026.7	1026.7	1015.6
10°	1248.7	1221.0	1125.8	1071.1	1025.9	1016.4	1007.7	1014.0	1022.0	1023.5	1016.4
12.5°	1289.9	1227.3	1117.1	1041.0	1012.4	991.8	997.4	1014.8	1031.5	1026.7	1032.3
15°	1320.9	1232.9	1077.5	1010.1	974.4	983.9	1003.7	1015.6	1043.4	1040.2	1045.7
17.5°	1351.0	1236.0	1038.6	968.8	953.8	979.9	995.0	1029.1	1037.8	1056.8	1064.0
20°	1412.8	1242.4	999.0	943.5	938.7	968.8	995.0	1010.9	1029.9	1046.5	1046.5
22.5°	1444.5	1239.2	972.8	910.2	925.2	944.3	968.0	995.0	995.0	1010.9	1011.7
25°	1484.2	1226.5	931.6	894.3	905.4	923.6	950.6	941.1	951.4	951.4	964.1
27.5°	1529.4	1199.6	895.9	865.8	888.0	907.8	911.8	905.4	893.5	891.9	887.2
30°	1565.8	1166.3	869.7	856.3	874.5	885.6	872.9	859.4	838.8	837.2	826.1
32.5°	1615.8	1125.0	837.2	832.5	853.1	853.9	849.9	829.3	799.2	786.5	773.8
35°	1699.8	1101.2	812.7	819.8	826.1	823.8	816.6	794.4	764.3	758.7	754.0
37.5°	1761.7	1083.8	787.3	796.0	801.6	804.7	783.3	758.7	759.5	748.4	745.3
40°	1831.4	1072.7	766.7	770.6	771.4	781.7	755.6	743.7	749.2	742.1	746.8
42.5°	1921.0	1075.9	745.3	742.1	757.2	753.2	740.5	724.6	727.8	706.4	709.6
45°	1968.6	1097.3	732.6	718.3	735.0	734.2	717.5	702.4	683.4	642.2	643.8
47.5°	2000.3	1102.8	702.4	692.9	710.4	720.7	701.7	666.8	639.8	610.5	603.3
50°	2032.8	1113.1	688.2	668.4	675.5	700.1	676.3	643.0	616.8	590.7	594.6
52.5°	2061.4	1133.0	660.4	631.1	643.8	670.7	658.0	617.6	589.1	567.7	561.3
55°	2188.2	1177.4	613.7	575.6	605.7	639.8	632.7	583.5	552.6	541.5	539.9
56°	2208.0	1178.9	589.1	556.6	584.3	629.5	620.8	568.5	540.7	523.3	524.1
57.5°	2211.2	1159.9	554.2	539.1	562.9	614.4	603.3	556.6	518.5	502.7	497.9
60°	1945.6	905.4	510.6	501.1	528.8	568.5	564.5	524.1	481.2	463.0	471.7
62.5°	1326.4	663.6	476.5	474.9	489.2	528.0	517.7	481.2	445.6	433.7	428.1
65°	772.2	503.4	443.2	436.8	448.7	469.4	476.5	438.4	401.2	393.2	390.9
67.5°	455.9	416.2	400.4	390.1	386.1	398.8	404.3	382.1	344.9	333.8	343.3
70°	381.4	370.3	371.0	353.6	344.1	335.4	330.6	310.8	279.9	265.6	261.6
72.5°	329.0	324.3	321.1	305.2	296.5	276.7	256.1	236.3	213.3	201.4	202.2
75°	251.3	249.7	251.3	243.4	228.3	212.5	193.5	168.1	150.6	135.6	138.7
77.5°	149.8	154.6	157.0	153.8	147.5	133.2	121.3	104.7	88.0	76.1	74.5
80°	103.1	107.0	111.0	107.0	100.7	90.4	77.7	65.0	53.1	46.8	45.2
82.5°	78.5	82.5	84.8	80.9	72.9	61.8	53.1	44.4	34.9	28.5	27.0
85°	28.5	32.5	31.7	38.1	41.2	39.6	34.1	26.2	19.8	14.3	13.5
87.5°	7.9	7.1	7.9	7.9	7.9	7.1	6.3	6.3	6.3	4.0	3.2
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)