

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: P450571

Luminaire Tested: **GALN-SA1B-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4274 lumens
Efficiency: N/A
Efficacy: 97.1 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

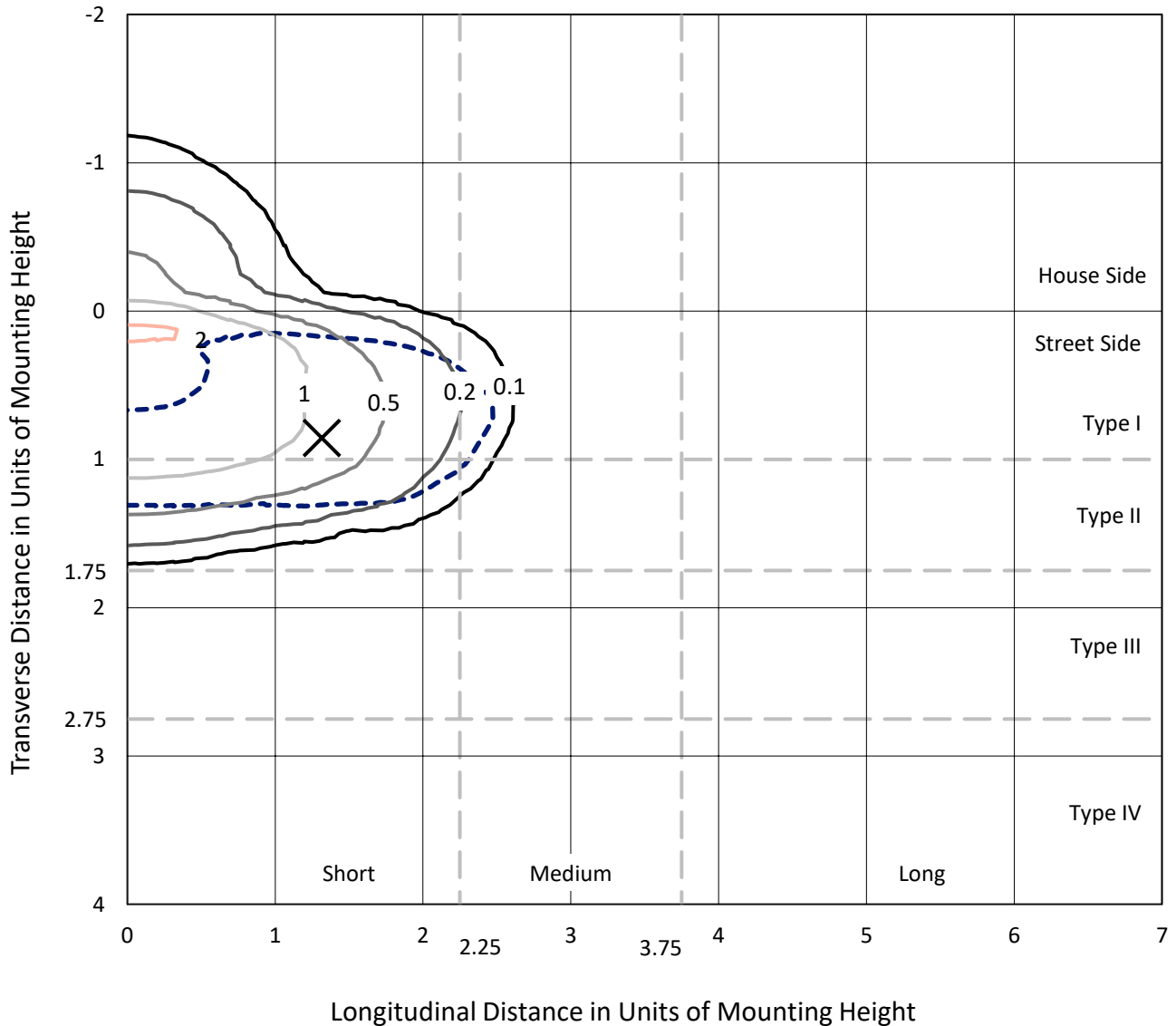
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

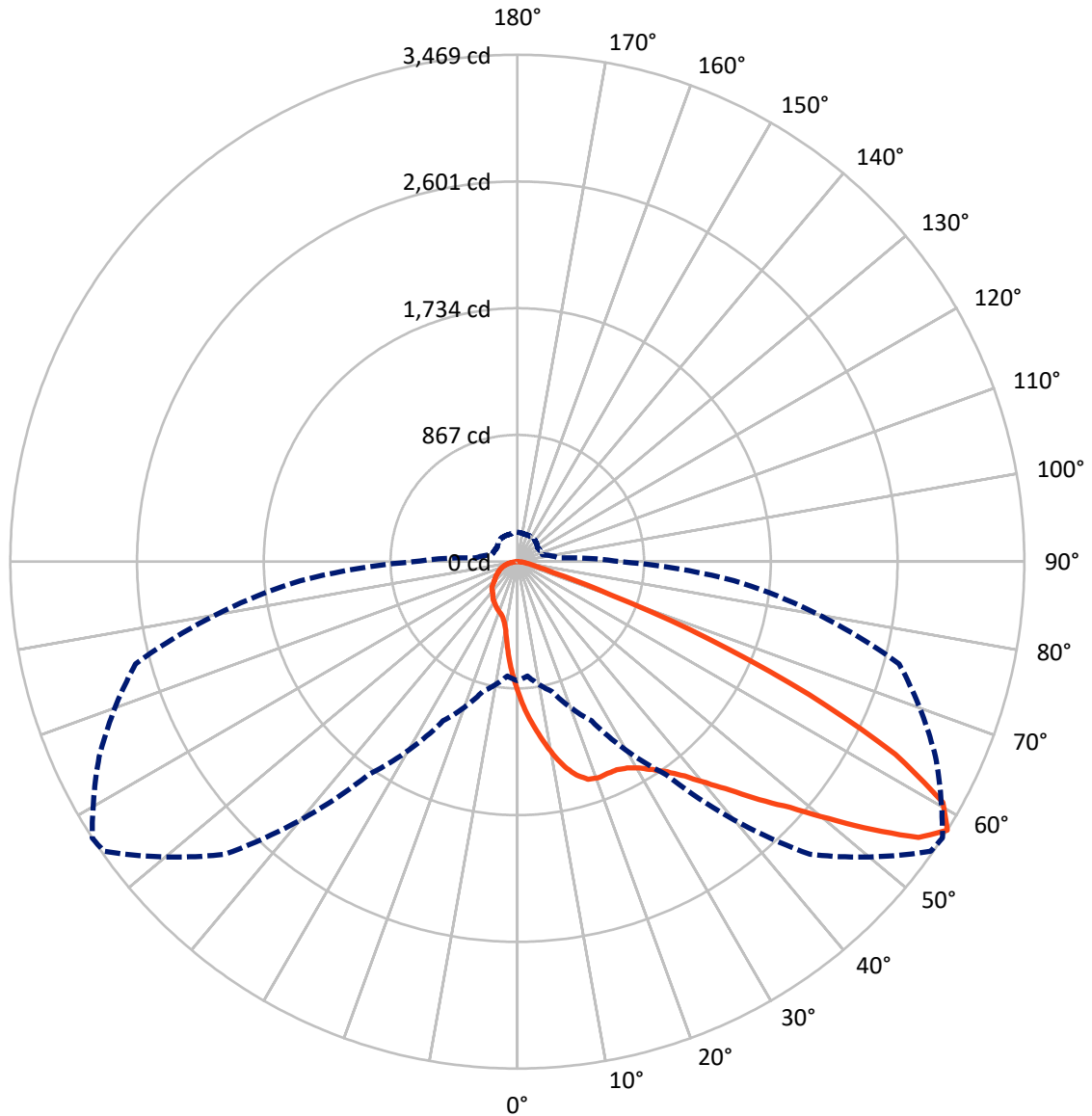
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.0	0.0	650.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3624.0	0.0	3624.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	4274.0	0.0	4274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	2.0
10°-20°	254.3	6.0
20°-30°	422.3	9.9
30°-40°	636.1	14.9
40°-50°	955.1	22.3
50°-60°	1070.5	25.0
60°-70°	626.5	14.7
70°-80°	185.3	4.3
80°-90°	37.5	0.9
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°	4274.0	100.0
0°-180°	4274.0	100.0

Coefficient of Utilization



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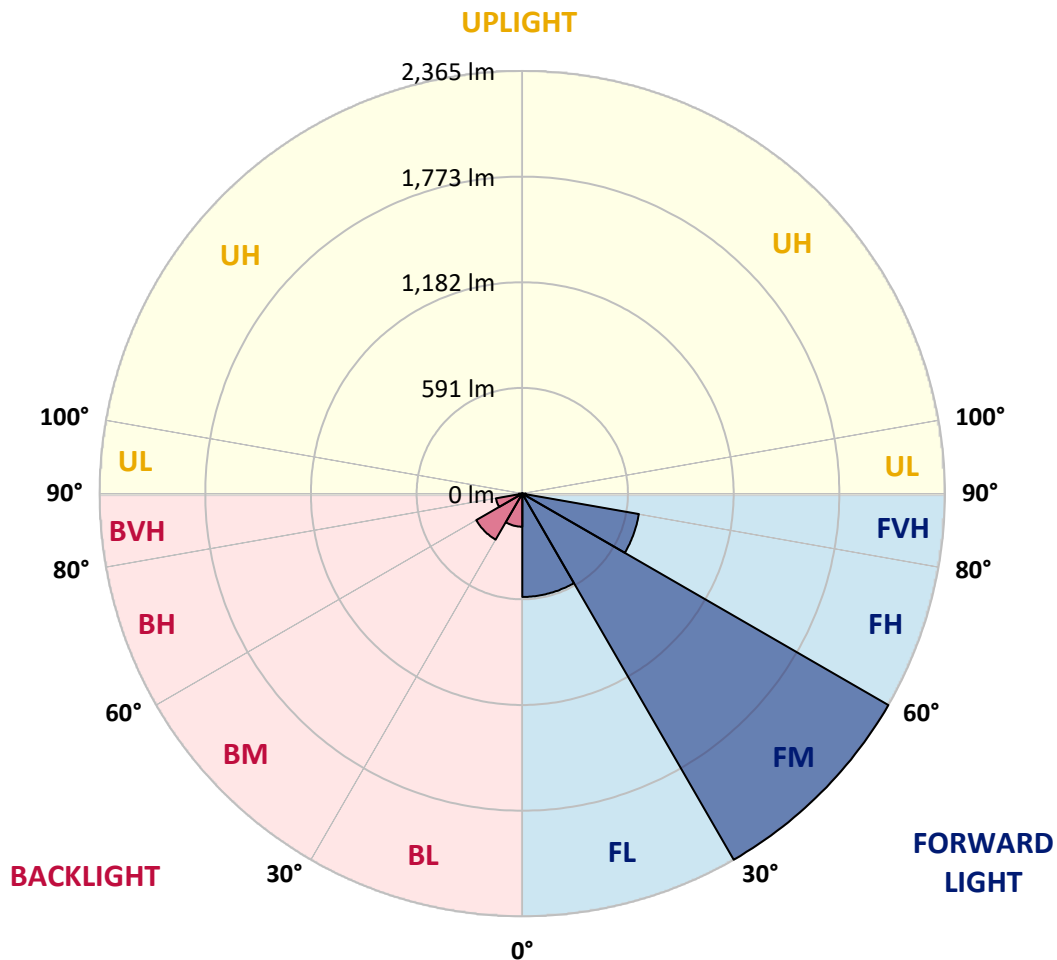
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.7	13.5			
FM (30°-60°)	2364.6	55.3			
FH (60°-80°)	662.3	15.5			G1/1800
FVH (80°-90°)	19.4	0.5			G1/100
BL (0°-30°)	185.2	4.3	B1/500		
BM (30°-60°)	297.2	7.0	B1/1000		
BH (60°-80°)	149.6	3.5	B1/500		G1/500
BVH (80°-90°)	18.0	0.4			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°	57°	65°	75°	85°
0°	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9
2.5°	1115.7	1103.6	1094.0	1085.6	1074.6	1044.8	1015.1	1014.7	991.0	954.5	917.1
5°	1297.5	1281.1	1283.2	1257.0	1230.8	1187.8	1124.9	1121.6	1071.3	1003.0	933.5
7.5°	1415.9	1416.1	1409.6	1394.6	1366.3	1317.4	1246.0	1229.9	1159.9	1056.3	952.2
10°	1409.8	1416.1	1427.1	1440.0	1448.6	1424.6	1359.5	1339.9	1248.9	1120.9	973.0
12.5°	1328.9	1338.7	1354.4	1386.7	1438.8	1478.6	1456.4	1440.5	1351.8	1185.2	995.9
15°	1278.3	1284.2	1292.8	1314.6	1370.7	1466.0	1523.5	1515.1	1448.9	1258.0	1021.7
17.5°	1262.9	1268.7	1271.5	1284.9	1324.9	1422.4	1550.0	1564.9	1535.0	1324.9	1047.6
20°	1278.3	1281.1	1281.1	1289.1	1320.4	1396.9	1548.8	1579.0	1605.6	1405.1	1072.0
22.5°	1318.8	1320.0	1318.3	1321.1	1344.5	1404.0	1537.8	1575.2	1662.7	1473.2	1090.9
25°	1384.5	1386.4	1375.7	1369.1	1386.2	1434.8	1543.9	1578.3	1707.4	1538.3	1103.6
27.5°	1459.2	1461.5	1448.4	1433.2	1441.2	1473.0	1567.7	1598.6	1740.9	1602.4	1111.5
30°	1550.7	1551.6	1529.6	1511.3	1506.2	1529.8	1608.4	1637.2	1782.5	1677.9	1123.5
32.5°	1644.2	1651.3	1622.9	1597.2	1588.6	1595.8	1668.6	1696.4	1832.1	1759.1	1142.6
35°	1771.5	1772.7	1738.8	1707.4	1678.9	1688.2	1745.5	1765.7	1900.6	1852.9	1169.8
37.5°	1930.4	1941.1	1894.3	1835.8	1800.8	1787.2	1838.7	1860.6	1996.8	1968.0	1210.7
40°	2106.8	2110.7	2070.7	2034.2	1970.1	1930.8	1966.4	1990.3	2115.4	2105.4	1258.2
42.5°	2217.7	2226.3	2229.4	2225.6	2177.4	2111.4	2125.0	2136.2	2255.8	2234.3	1306.9
45°	2255.1	2268.0	2311.5	2403.7	2408.8	2343.8	2312.2	2322.9	2408.8	2364.3	1353.4
47.5°	2193.1	2215.1	2295.3	2484.4	2625.9	2630.8	2535.6	2512.0	2548.2	2472.2	1387.1
50°	2032.8	2037.5	2160.3	2434.1	2727.7	2905.3	2806.8	2762.8	2680.7	2552.0	1410.3
52.5°	1784.8	1790.2	1893.2	2200.3	2665.0	3097.1	3124.0	3045.4	2815.2	2614.0	1425.5
55°	1324.9	1356.0	1469.2	1766.1	2367.9	3079.1	3376.2	3331.5	2977.8	2663.1	1449.3
57.5°	814.6	786.1	920.4	1201.6	1780.9	2831.6	3454.1	3468.6	3156.8	2704.3	1489.4
60°	374.8	380.4	435.9	619.7	1085.6	2215.1	3253.4	3345.1	3255.7	2702.9	1499.4
62.5°	258.3	253.1	239.1	272.1	495.0	1400.9	2748.0	2903.4	3057.3	2618.9	1459.4
65°	230.9	225.8	198.6	189.5	227.4	610.6	1997.7	2193.8	2574.2	2406.9	1359.7
67.5°	215.7	208.7	180.6	162.8	162.4	243.1	1178.0	1414.0	1909.3	2034.9	1178.2
70°	199.8	194.2	166.3	146.7	138.3	152.8	517.7	677.8	1239.7	1466.4	917.8
72.5°	183.9	177.3	152.3	131.2	120.3	114.4	198.4	258.1	700.5	879.2	562.7
75°	160.7	157.5	136.2	118.8	106.9	92.4	125.9	143.6	335.0	403.8	282.4
77.5°	140.6	137.1	121.0	103.9	95.2	75.1	89.4	97.6	141.3	163.8	127.5
80°	102.9	106.4	102.0	91.7	84.9	59.0	60.1	66.9	84.0	92.9	77.9
82.5°	65.3	71.8	78.6	70.7	64.3	46.6	41.6	44.2	57.3	60.8	34.6
85°	27.4	27.8	45.6	43.0	36.7	27.6	25.0	26.4	30.6	32.1	16.1
87.5°	10.5	10.3	16.1	15.0	11.5	8.0	8.0	8.9	12.2	11.2	5.1
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°	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9
2.5°	901.0	884.3	851.4	810.4	780.5	746.8	717.1	695.8	687.8	684.1	677.1
5°	900.3	867.5	799.2	727.6	670.0	611.1	561.3	529.0	526.2	504.6	502.5
7.5°	900.5	850.4	741.6	636.4	548.6	488.3	447.1	436.3	423.5	420.2	421.8
10°	901.2	828.7	679.9	546.1	461.1	421.6	406.1	401.9	402.4	403.8	404.0
12.5°	902.1	807.6	615.8	477.5	412.0	395.6	394.0	397.7	401.7	404.7	405.4
15°	903.3	783.5	553.3	422.3	387.4	386.0	391.4	397.7	403.3	407.8	408.5
17.5°	901.9	755.4	500.9	388.4	373.9	380.6	389.5	397.5	402.6	406.8	407.3
20°	898.6	724.1	450.4	364.5	365.4	376.4	386.0	393.5	399.1	401.2	402.9
22.5°	886.0	686.7	406.4	346.0	355.4	370.6	382.0	386.5	380.2	375.7	376.9
25°	864.5	638.0	365.4	331.0	346.3	362.4	374.1	363.3	358.2	356.3	357.2
27.5°	837.6	584.7	334.6	315.4	334.6	353.3	350.0	348.1	345.8	342.7	343.4
30°	808.5	532.5	308.4	303.2	321.9	332.7	334.1	337.1	334.6	329.9	331.7
32.5°	781.6	483.4	288.5	292.9	313.0	311.4	321.9	325.4	313.5	297.8	298.5
35°	758.7	437.7	273.5	282.9	297.8	298.5	309.1	296.9	284.0	276.5	277.0
37.5°	741.4	402.2	263.7	274.2	278.4	287.3	281.7	275.4	273.7	268.6	268.8
40°	731.1	371.1	257.4	267.4	266.7	272.8	254.8	261.1	263.4	261.8	262.0
42.5°	720.8	349.1	250.8	258.1	257.8	245.9	241.9	247.3	253.4	254.1	253.6
45°	712.6	332.0	244.0	243.8	248.5	229.7	228.6	231.8	240.5	244.7	244.5
47.5°	703.5	317.7	233.7	227.2	228.6	219.7	217.8	219.2	229.7	236.5	238.4
50°	692.0	303.4	220.9	212.0	206.1	210.3	210.8	211.0	221.6	229.3	230.9
52.5°	682.9	292.7	206.1	199.6	192.5	201.9	205.4	205.9	212.2	218.5	219.7
55°	688.3	286.6	191.6	186.9	180.6	193.2	200.0	201.0	202.4	207.0	207.8
57.5°	704.4	288.0	179.9	173.8	169.1	183.0	194.4	195.1	194.2	199.8	200.7
60°	709.4	287.3	171.3	159.3	156.5	172.0	186.2	187.6	187.4	195.6	197.2
62.5°	688.8	278.4	162.6	147.2	145.3	160.7	174.8	180.4	181.5	193.2	195.4
65°	640.3	260.2	151.1	134.3	134.3	148.8	163.8	171.5	174.8	190.4	192.8
67.5°	576.5	238.6	139.4	123.3	122.8	137.3	152.1	160.0	165.2	186.5	187.9
70°	478.4	209.6	124.9	111.4	111.4	124.5	137.8	147.4	154.9	179.0	179.0
72.5°	327.8	174.3	107.4	97.8	98.0	110.2	123.8	134.5	143.4	164.0	164.5
75°	207.3	136.2	88.2	83.3	84.2	95.7	109.7	121.0	138.7	162.1	162.8
77.5°	110.2	95.7	70.2	69.0	70.2	80.7	96.4	111.8	139.2	140.6	138.3
80°	71.4	67.8	55.4	53.1	53.6	65.0	85.9	106.2	111.8	113.2	108.1
82.5°	38.8	43.0	39.3	37.0	37.0	50.8	73.2	84.5	80.2	66.7	63.6
85°	16.6	20.1	20.4	17.8	17.1	31.3	49.1	46.1	42.8	40.9	40.5
87.5°	4.7	6.6	6.6	4.9	3.7	8.7	9.8	2.8	0.0	0.2	0.5
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)