

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: P450657

Luminaire Tested: **GALN-SA1C-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4874 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

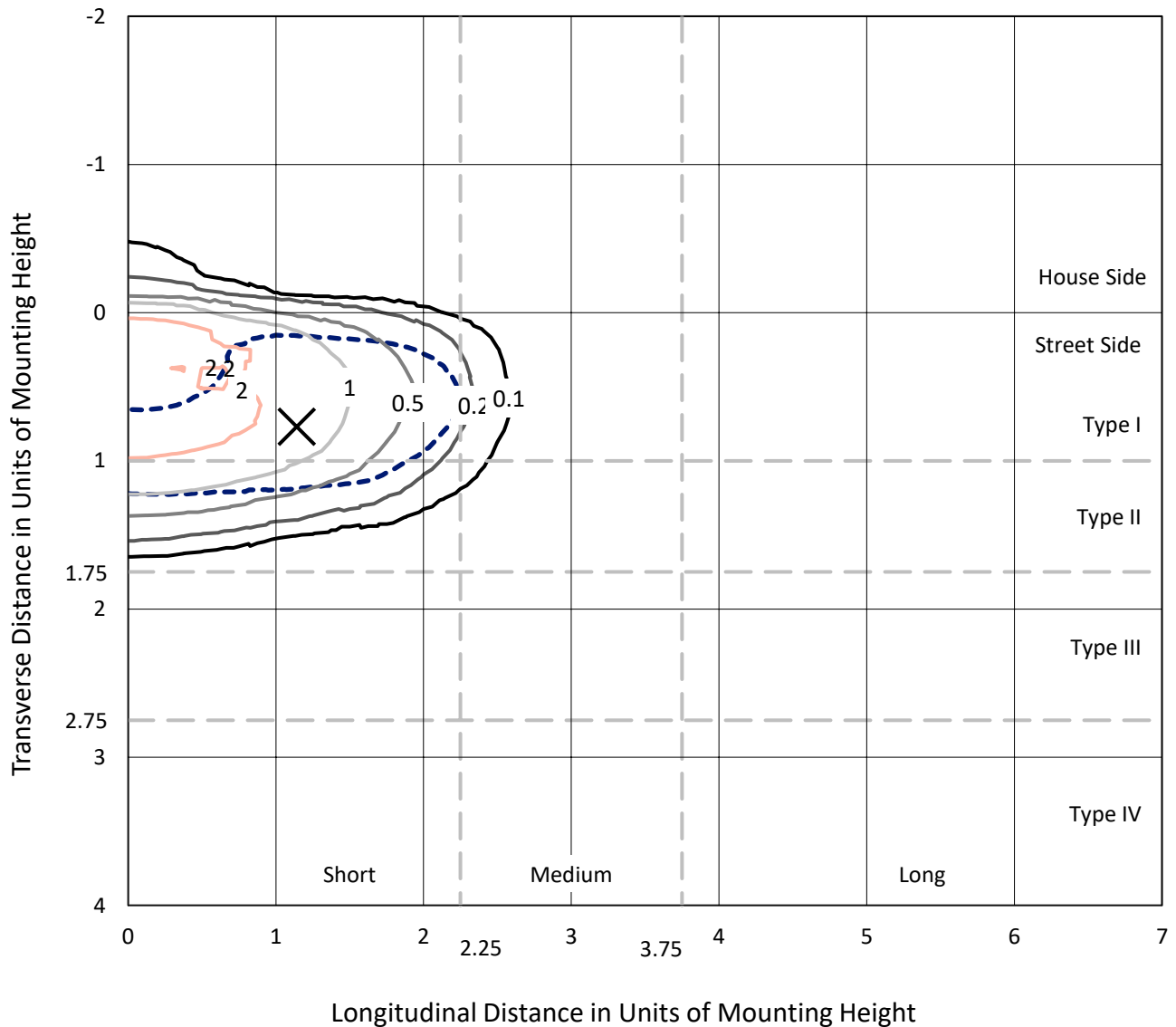
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

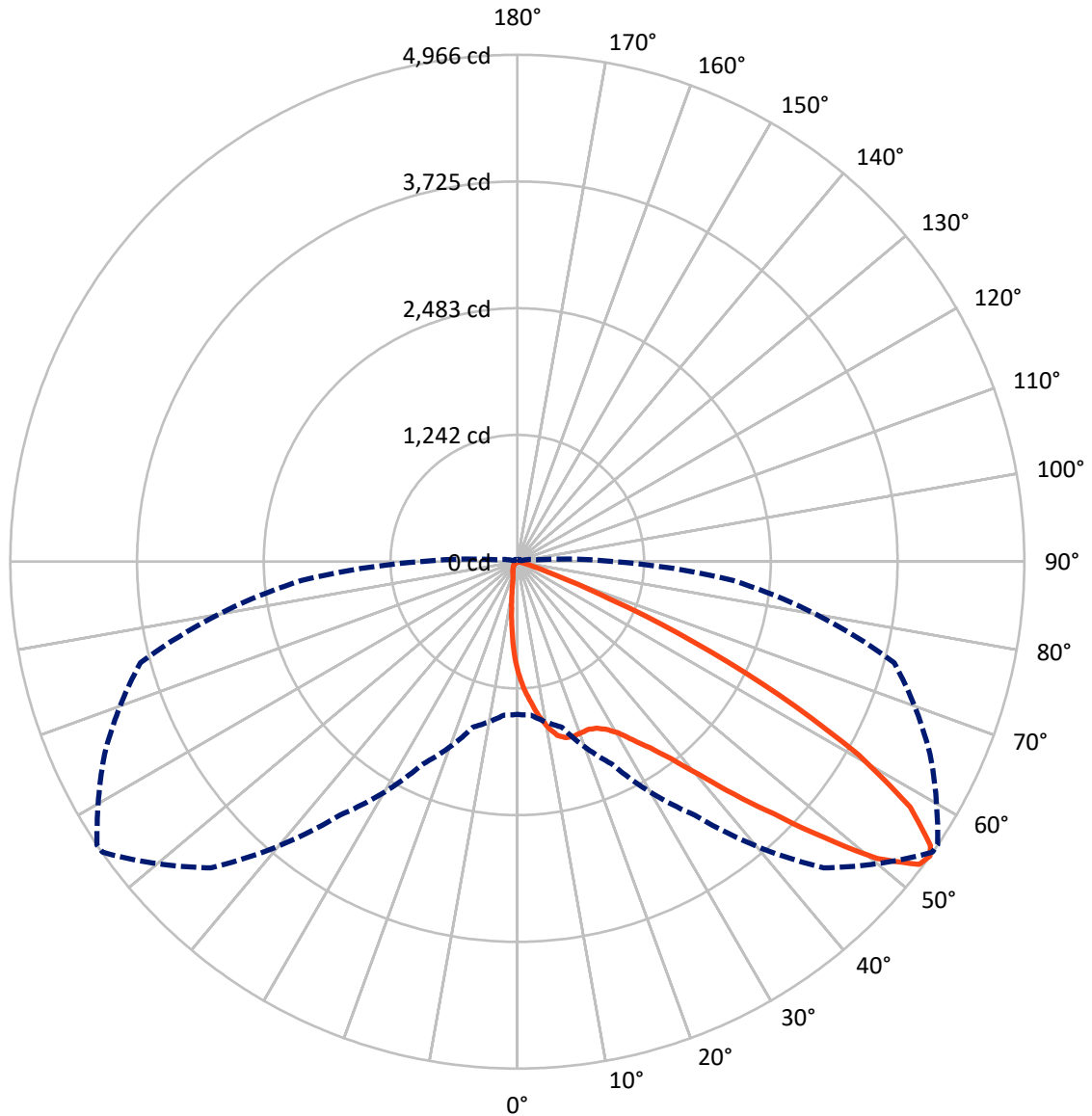
✕ Max cd
 - - - 1/2 Max cd



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 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	230.5	0.0	230.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4643.5	0.0	4643.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	4874.0	0.0	4874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	2.0
10°-20°	258.7	5.3
20°-30°	448.0	9.2
30°-40°	773.3	15.9
40°-50°	1316.2	27.0
50°-60°	1302.6	26.7
60°-70°	594.5	12.2
70°-80°	76.3	1.6
80°-90°	8.6	0.2
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°	4874.0	100.0
0°-180°	4874.0	100.0

Coefficient of Utilization



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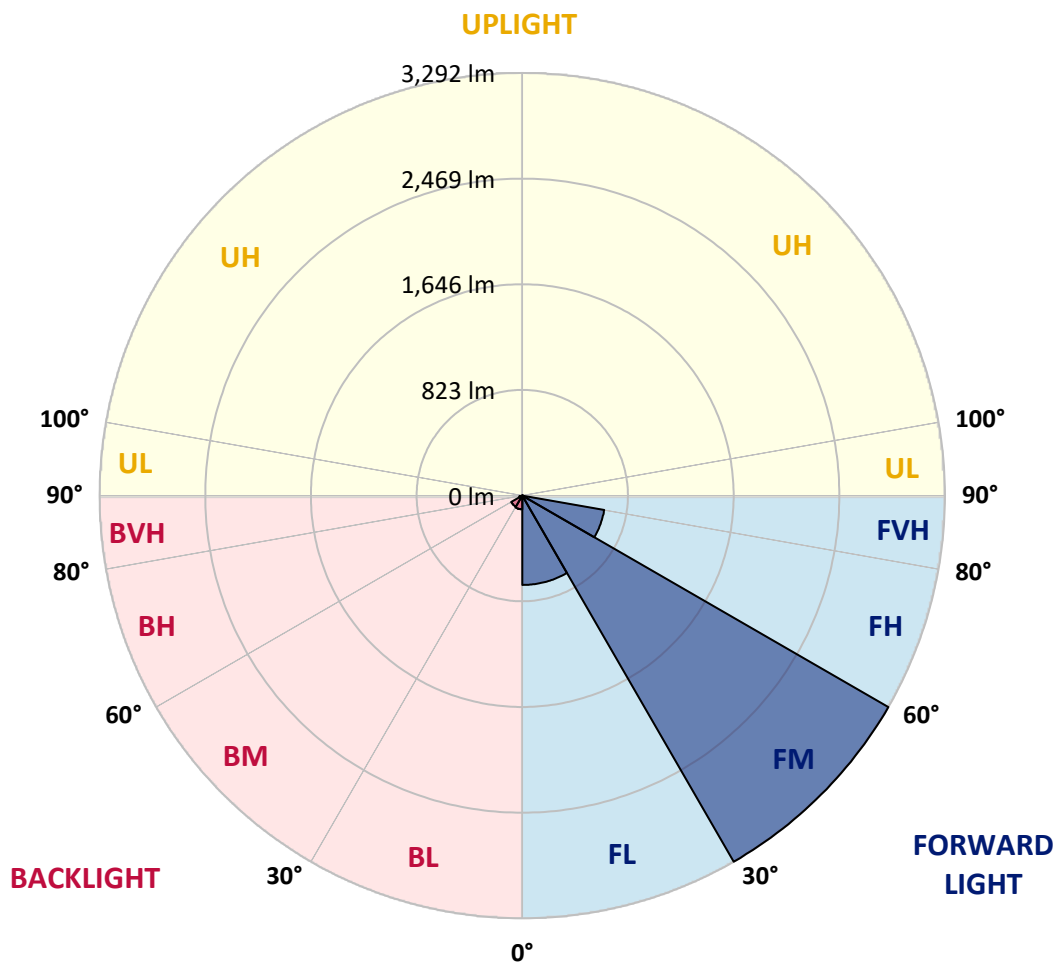
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.8	14.3			
FM (30°-60°)	3292.3	67.5			
FH (60°-80°)	647.8	13.3			G0/660
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	106.6	2.2	B0/110		
BM (30°-60°)	99.9	2.0	B0/220		
BH (60°-80°)	23.1	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9
2.5°	1376.2	1366.6	1353.5	1343.3	1319.3	1284.8	1248.3	1248.3	1213.1	1164.1	1114.1
5°	1587.3	1581.1	1568.2	1541.9	1515.0	1466.6	1393.3	1380.5	1317.7	1228.9	1135.5
7.5°	1673.1	1676.1	1676.7	1669.8	1657.0	1609.3	1536.7	1527.8	1427.5	1308.4	1163.4
10°	1590.9	1605.4	1619.5	1648.1	1688.6	1700.1	1659.0	1649.8	1551.1	1389.0	1193.7
12.5°	1468.6	1476.5	1484.4	1529.4	1610.6	1703.7	1746.8	1746.5	1662.9	1469.2	1232.2
15°	1411.7	1418.6	1419.3	1439.3	1509.7	1645.2	1784.3	1789.2	1772.1	1568.2	1273.6
17.5°	1423.5	1429.1	1424.5	1429.5	1466.3	1580.7	1780.0	1796.4	1860.6	1663.3	1311.1
20°	1500.8	1511.7	1493.9	1480.1	1491.3	1563.6	1765.5	1788.5	1923.0	1756.0	1345.3
22.5°	1639.6	1645.5	1623.1	1585.3	1565.6	1599.5	1761.6	1784.3	1976.3	1832.0	1365.0
25°	1793.8	1791.8	1767.2	1724.8	1683.3	1671.8	1787.6	1807.9	2020.4	1900.4	1370.9
27.5°	1948.0	1954.0	1912.5	1859.9	1810.3	1780.3	1845.8	1860.9	2070.0	1978.3	1378.2
30°	2127.3	2117.7	2076.9	2016.8	1959.9	1918.1	1939.5	1943.8	2138.4	2081.5	1397.2
32.5°	2360.4	2334.1	2288.4	2183.2	2142.4	2071.7	2076.9	2082.2	2221.6	2183.8	1420.3
35°	2676.7	2675.4	2586.0	2444.3	2344.9	2257.1	2234.1	2238.4	2347.6	2335.7	1471.2
37.5°	3057.5	3062.8	2960.9	2818.1	2635.3	2495.9	2448.5	2449.2	2539.0	2545.5	1548.8
40°	3367.6	3381.4	3320.6	3224.3	3043.7	2825.7	2746.1	2738.9	2807.9	2799.7	1659.6
42.5°	3501.1	3514.0	3536.6	3570.2	3470.9	3291.0	3103.2	3113.1	3134.2	3076.6	1783.9
45°	3435.7	3456.1	3545.2	3752.4	3845.8	3785.3	3561.3	3526.8	3437.7	3377.5	1908.9
47.5°	3163.1	3212.7	3361.7	3706.7	4033.5	4238.1	4078.2	4032.5	3741.5	3597.2	1988.5
50°	2714.9	2717.8	2925.3	3366.3	3936.2	4523.8	4606.0	4571.8	4024.6	3720.5	2028.6
52.5°	1968.1	2032.9	2222.9	2733.6	3514.6	4480.4	4942.4	4928.3	4316.7	3783.6	2086.5
54°	1496.2	1508.7	1677.7	2184.5	3030.2	4242.0	4963.1	4966.4	4461.7	3821.8	2120.7
55°	1226.6	1196.6	1374.2	1860.9	2699.8	4031.2	4895.4	4911.2	4526.8	3841.5	2146.0
57.5°	581.4	581.7	717.5	981.6	1690.9	3130.2	4481.4	4537.3	4534.0	3875.4	2223.9
60°	294.3	296.3	326.2	453.1	835.2	2080.9	3705.3	3838.5	4185.1	3880.3	2249.6
62.5°	205.9	203.6	198.6	218.0	351.5	1057.5	2758.6	2874.4	3555.7	3692.5	2168.0
65°	176.3	171.3	157.5	154.6	177.6	421.2	1718.2	1906.9	2714.9	3197.3	1935.9
67.5°	150.6	148.6	136.1	128.6	125.6	183.5	886.5	985.9	1855.6	2298.2	1466.3
70°	127.9	126.9	119.4	109.8	101.6	109.8	328.8	407.4	1034.2	1237.4	691.9
72.5°	103.9	104.9	106.2	94.0	85.5	77.9	140.4	163.4	432.8	442.3	242.0
75°	91.1	90.1	90.1	81.9	71.4	57.9	77.3	83.2	132.5	123.0	56.2
77.5°	64.1	61.8	72.3	67.4	59.5	41.1	44.1	46.7	54.9	47.0	26.3
80°	44.4	44.4	46.4	60.5	53.6	29.9	27.0	28.9	32.6	28.0	15.1
82.5°	25.0	25.6	30.3	32.2	31.2	20.1	17.8	18.1	21.7	19.1	9.5
85°	3.0	4.9	17.4	17.1	12.8	8.9	9.9	10.2	13.5	11.8	5.6
87.5°	0.3	0.7	3.6	4.6	3.3	3.6	3.6	3.6	4.6	5.3	3.9
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°	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9	1082.9
2.5°	1087.1	1062.1	1002.6	933.6	889.5	817.8	757.3	713.6	702.7	681.7	687.9
5°	1085.8	1033.9	912.5	784.3	647.5	545.5	469.6	409.7	383.4	366.0	353.8
7.5°	1086.5	1005.3	810.6	606.4	442.9	343.0	272.6	236.1	211.8	201.6	202.9
10°	1088.5	973.0	692.2	449.2	298.9	221.6	178.6	161.1	152.9	151.6	151.3
12.5°	1093.1	937.8	579.1	333.4	209.1	161.1	144.7	138.8	136.1	136.1	135.2
15°	1098.0	899.0	485.0	247.9	161.1	138.4	130.9	127.9	126.3	126.3	125.9
17.5°	1098.0	854.3	397.2	192.4	138.8	127.3	121.3	117.4	116.1	116.1	115.8
20°	1091.1	802.4	319.3	154.9	125.9	116.7	110.8	106.5	104.9	104.2	103.9
22.5°	1067.1	733.0	254.2	133.2	115.4	107.5	100.0	95.0	93.7	93.1	93.4
25°	1024.3	654.7	201.2	117.1	105.9	96.3	89.8	86.2	84.8	84.8	85.2
27.5°	980.3	572.8	159.5	104.9	94.4	85.8	80.6	78.3	77.9	78.9	79.2
30°	939.5	490.6	129.2	95.0	84.2	76.9	73.3	72.7	72.7	73.0	73.3
32.5°	894.1	418.6	108.2	86.5	76.0	69.7	67.7	67.7	68.4	68.4	69.1
35°	865.5	356.8	95.0	78.3	69.7	64.5	63.1	63.5	64.5	65.8	66.4
37.5°	850.0	307.5	86.5	71.7	63.8	60.2	58.9	59.5	61.8	64.1	64.5
40°	851.4	270.3	79.6	66.1	59.2	55.2	54.3	56.2	58.5	60.8	61.2
42.5°	865.8	242.7	73.0	59.5	55.2	49.7	49.3	51.3	52.3	54.6	54.9
45°	882.9	222.6	66.1	52.6	48.0	43.1	43.4	45.1	46.4	50.0	50.6
47.5°	888.2	208.8	58.2	44.7	39.5	37.8	38.1	39.1	41.8	45.1	45.4
50°	894.1	200.3	50.6	37.8	33.5	33.2	33.5	34.2	35.8	37.2	36.8
52.5°	919.4	199.9	44.4	32.9	28.6	29.3	29.6	29.3	28.0	26.0	25.3
54°	943.1	200.9	41.4	30.6	26.3	27.3	27.0	25.3	22.0	20.1	19.1
55°	962.2	201.9	39.8	28.9	25.0	25.3	25.6	22.4	18.1	16.1	15.5
57.5°	999.7	199.6	35.8	25.3	22.0	20.7	20.4	14.8	9.9	8.5	7.9
60°	980.9	180.2	32.6	21.7	18.7	16.8	13.8	8.2	4.9	3.6	3.6
62.5°	907.3	152.9	28.9	17.8	15.5	12.8	7.2	4.6	2.3	1.3	1.0
65°	811.6	128.6	26.0	14.1	12.2	8.2	3.9	3.0	1.0	0.0	0.0
67.5°	603.4	95.4	22.0	11.2	9.2	5.3	2.6	1.6	0.3	0.0	0.0
70°	279.5	58.2	18.7	8.5	6.6	3.9	2.0	1.0	0.0	0.0	0.0
72.5°	80.2	36.5	15.5	6.2	4.6	3.3	1.6	0.7	0.3	0.0	0.0
75°	28.0	29.3	11.5	4.6	3.6	2.3	1.3	0.7	0.3	0.0	0.0
77.5°	16.8	23.7	7.2	3.9	3.0	2.0	1.3	0.7	0.3	0.3	0.0
80°	9.5	15.8	4.6	3.3	2.6	1.6	1.0	0.7	0.3	0.3	0.0
82.5°	5.3	7.6	3.6	3.0	2.3	1.6	1.0	0.7	0.3	0.3	0.3
85°	4.3	3.9	3.0	2.6	2.0	1.3	1.0	0.3	0.0	0.0	0.0
87.5°	3.3	2.6	2.6	2.6	2.0	1.3	1.0	0.3	0.0	0.0	0.0
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)