

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: P450454

Luminaire Tested: **GALN-SA1B-730-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450454  
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-SA1B-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA 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: 4296 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

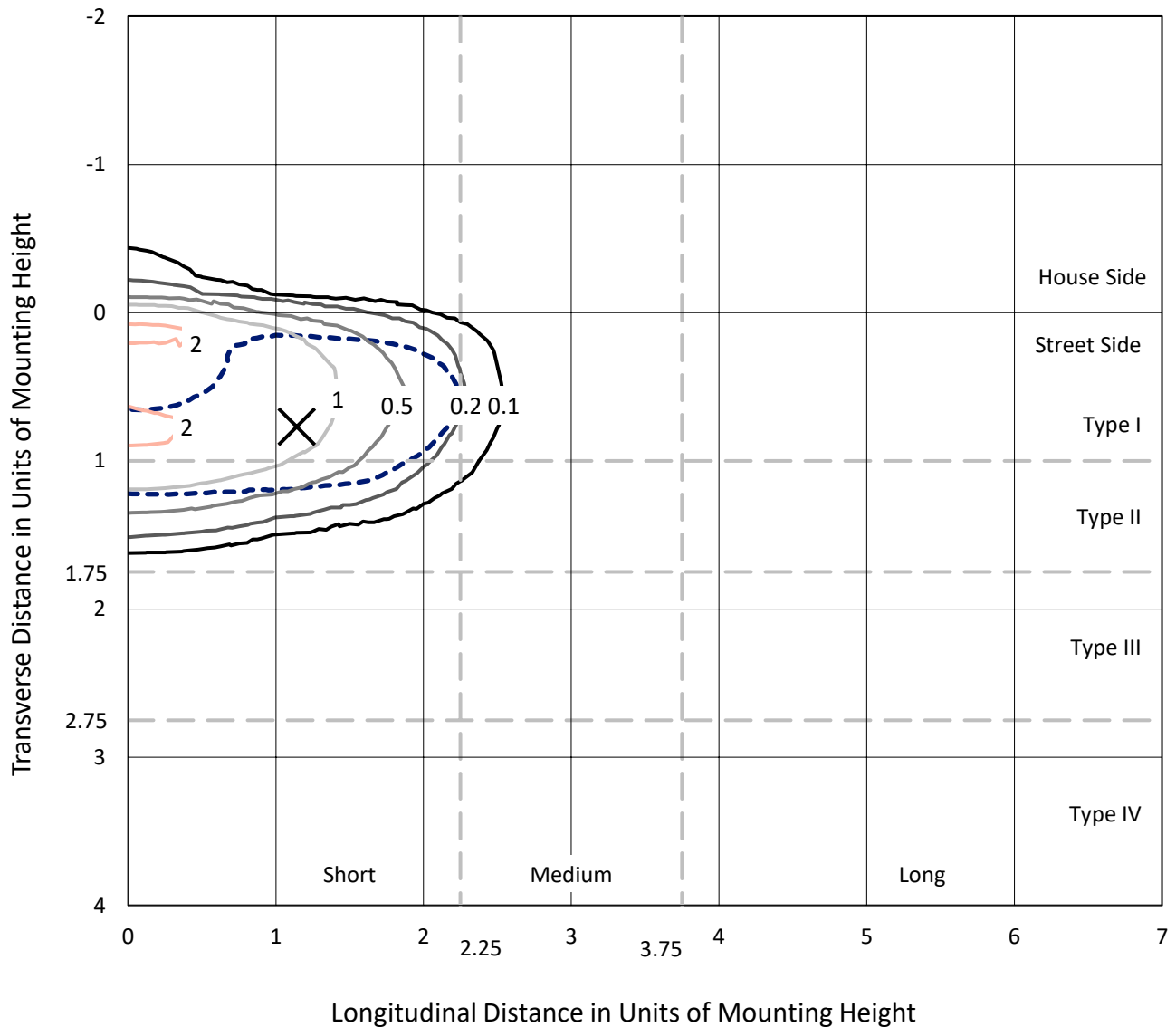
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

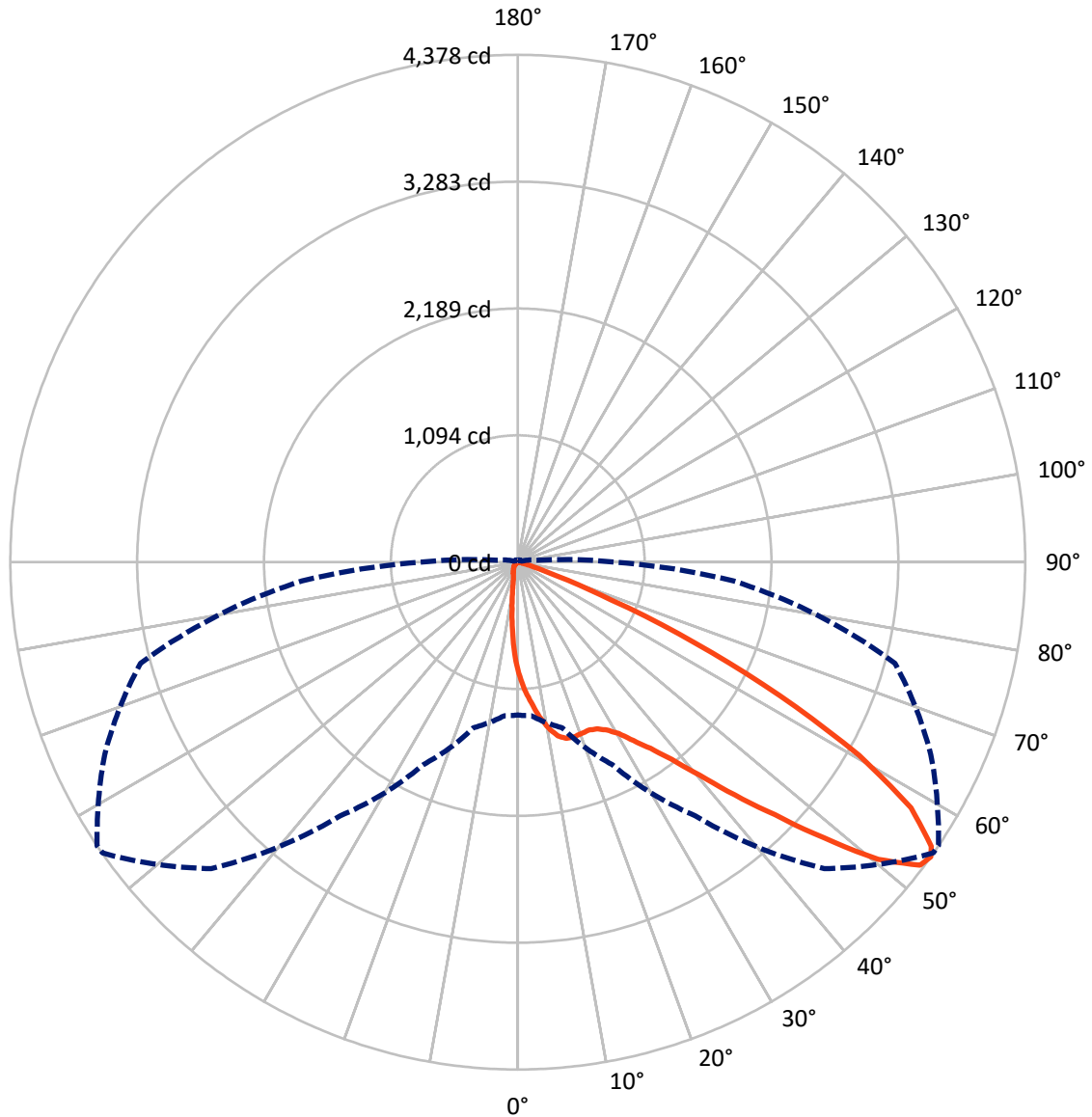
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
<b>House Side</b>	Lumens	203.2	0.0	203.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	4092.8	0.0	4092.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	4296.0	0.0	4296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	2.0
10°-20°	228.0	5.3
20°-30°	394.9	9.2
30°-40°	681.6	15.9
40°-50°	1160.1	27.0
50°-60°	1148.1	26.7
60°-70°	524.0	12.2
70°-80°	67.3	1.6
80°-90°	7.6	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°	4296.0	100.0
0°-180°	4296.0	100.0

**Coefficient of Utilization**



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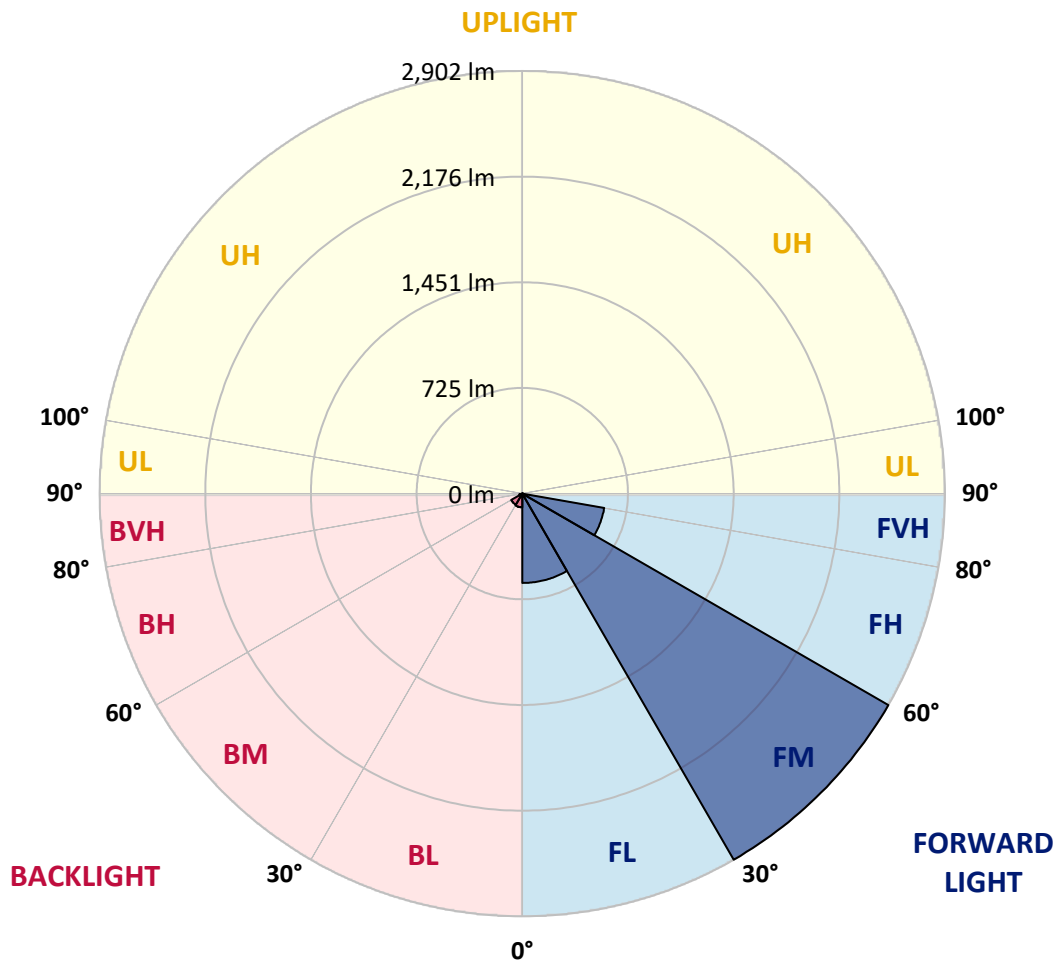
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.3	14.3			
FM (30°-60°)	2901.8	67.5			
FH (60°-80°)	571.0	13.3			G0/660
FVH (80°-90°)	6.8	0.2			G0/10
BL (0°-30°)	94.0	2.2	B0/110		
BM (30°-60°)	88.0	2.0	B0/220		
BH (60°-80°)	20.3	0.5	B0/110		G0/110
BVH (80°-90°)	0.8	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°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
2.5°	1213.0	1204.6	1193.0	1184.0	1162.8	1132.4	1100.2	1100.2	1069.2	1026.0	982.0
5°	1399.1	1393.6	1382.3	1359.1	1335.3	1292.7	1228.1	1216.8	1161.4	1083.1	1000.8
7.5°	1474.7	1477.3	1477.9	1471.8	1460.5	1418.5	1354.4	1346.6	1258.2	1153.3	1025.5
10°	1402.3	1415.0	1427.5	1452.7	1488.3	1498.5	1462.2	1454.1	1367.2	1224.3	1052.1
12.5°	1294.4	1301.4	1308.3	1348.1	1419.6	1501.7	1539.6	1539.3	1465.7	1295.0	1086.0
15°	1244.3	1250.4	1251.0	1268.6	1330.7	1450.1	1572.7	1577.0	1562.0	1382.3	1122.6
17.5°	1254.7	1259.7	1255.6	1259.9	1292.4	1393.3	1568.9	1583.4	1639.9	1466.0	1155.6
20°	1322.8	1332.4	1316.7	1304.6	1314.4	1378.2	1556.2	1576.4	1695.0	1547.8	1185.7
22.5°	1445.1	1450.4	1430.7	1397.3	1379.9	1409.8	1552.7	1572.7	1741.9	1614.7	1203.1
25°	1581.1	1579.3	1557.6	1520.2	1483.7	1473.6	1575.6	1593.5	1780.8	1675.0	1208.3
27.5°	1717.0	1722.2	1685.7	1639.3	1595.6	1569.2	1626.9	1640.2	1824.6	1743.7	1214.7
30°	1875.0	1866.6	1830.6	1777.6	1727.5	1690.6	1709.5	1713.3	1884.8	1834.7	1231.5
32.5°	2080.5	2057.3	2017.0	1924.3	1888.3	1826.0	1830.6	1835.3	1958.2	1924.8	1251.8
35°	2359.3	2358.1	2279.3	2154.4	2066.9	1989.5	1969.2	1973.0	2069.2	2058.7	1296.8
37.5°	2694.9	2699.6	2609.7	2483.9	2322.8	2199.9	2158.2	2158.7	2237.9	2243.7	1365.2
40°	2968.3	2980.4	2926.8	2841.9	2682.8	2490.6	2420.5	2414.1	2475.0	2467.7	1462.8
42.5°	3085.9	3097.2	3117.2	3146.8	3059.3	2900.7	2735.2	2743.9	2762.5	2711.8	1572.4
45°	3028.3	3046.2	3124.8	3307.4	3389.7	3336.4	3139.0	3108.5	3030.0	2977.0	1682.5
47.5°	2788.0	2831.8	2963.0	3267.1	3555.2	3735.5	3594.6	3554.3	3297.8	3170.6	1752.7
50°	2392.9	2395.5	2578.4	2967.1	3469.4	3987.3	4059.8	4029.7	3547.4	3279.3	1788.0
52.5°	1734.7	1791.8	1959.3	2409.5	3097.8	3949.1	4356.3	4343.9	3804.7	3334.9	1839.0
54°	1318.8	1329.8	1478.8	1925.4	2670.9	3739.0	4374.6	4377.5	3932.6	3368.5	1869.2
55°	1081.1	1054.7	1211.2	1640.2	2379.6	3553.2	4314.9	4328.8	3990.0	3385.9	1891.5
57.5°	512.4	512.7	632.4	865.2	1490.4	2759.0	3950.0	3999.2	3996.3	3415.8	1960.2
60°	259.4	261.1	287.5	399.4	736.2	1834.1	3265.9	3383.3	3688.8	3420.1	1982.8
62.5°	181.4	179.4	175.1	192.2	309.8	932.1	2431.5	2533.5	3134.1	3254.6	1910.9
65°	155.4	151.0	138.8	136.2	156.5	371.3	1514.4	1680.8	2392.9	2818.1	1706.3
67.5°	132.7	131.0	120.0	113.3	110.7	161.7	781.4	868.9	1635.6	2025.7	1292.4
70°	112.7	111.9	105.2	96.8	89.6	96.8	289.8	359.1	911.6	1090.7	609.8
72.5°	91.6	92.5	93.6	82.9	75.4	68.7	123.8	144.1	381.4	389.8	213.3
75°	80.3	79.4	79.4	72.2	62.9	51.0	68.1	73.3	116.8	108.4	49.6
77.5°	56.5	54.5	63.8	59.4	52.5	36.2	38.8	41.2	48.4	41.4	23.2
80°	39.1	39.1	40.9	53.3	47.2	26.4	23.8	25.5	28.7	24.6	13.3
82.5°	22.0	22.6	26.7	28.4	27.5	17.7	15.7	15.9	19.1	16.8	8.4
85°	2.6	4.3	15.4	15.1	11.3	7.8	8.7	9.0	11.9	10.4	4.9
87.5°	0.3	0.6	3.2	4.1	2.9	3.2	3.2	3.2	4.1	4.6	3.5
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°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
2.5°	958.2	936.2	883.7	822.9	784.0	720.8	667.5	629.0	619.4	600.8	606.3
5°	957.1	911.3	804.3	691.3	570.7	480.8	413.9	361.1	338.0	322.6	311.9
7.5°	957.6	886.0	714.5	534.5	390.4	302.3	240.3	208.1	186.7	177.7	178.8
10°	959.4	857.6	610.1	395.9	263.5	195.4	157.4	142.0	134.8	133.6	133.3
12.5°	963.4	826.6	510.4	293.9	184.3	142.0	127.5	122.3	120.0	120.0	119.1
15°	967.8	792.4	427.5	218.5	142.0	122.0	115.4	112.7	111.3	111.3	111.0
17.5°	967.8	753.0	350.1	169.6	122.3	112.2	107.0	103.5	102.3	102.3	102.0
20°	961.7	707.2	281.4	136.5	111.0	102.9	97.7	93.9	92.5	91.9	91.6
22.5°	940.5	646.1	224.0	117.4	101.7	94.8	88.1	83.8	82.6	82.0	82.3
25°	902.9	577.1	177.4	103.2	93.3	84.9	79.1	75.9	74.8	74.8	75.1
27.5°	864.0	504.9	140.6	92.5	83.2	75.6	71.0	69.0	68.7	69.6	69.9
30°	828.1	432.4	113.9	83.8	74.2	67.8	64.6	64.1	64.1	64.3	64.6
32.5°	788.1	369.0	95.4	76.2	67.0	61.4	59.7	59.7	60.3	60.3	60.9
35°	762.9	314.5	83.8	69.0	61.4	56.8	55.6	55.9	56.8	58.0	58.5
37.5°	749.2	271.0	76.2	63.2	56.2	53.0	51.9	52.5	54.5	56.5	56.8
40°	750.4	238.2	70.1	58.3	52.2	48.7	47.8	49.6	51.6	53.6	53.9
42.5°	763.2	213.9	64.3	52.5	48.7	43.8	43.5	45.2	46.1	48.1	48.4
45°	778.2	196.2	58.3	46.4	42.3	38.0	38.3	39.7	40.9	44.1	44.6
47.5°	782.9	184.0	51.3	39.4	34.8	33.3	33.6	34.5	36.8	39.7	40.0
50°	788.1	176.5	44.6	33.3	29.6	29.3	29.6	30.1	31.6	32.8	32.5
52.5°	810.4	176.2	39.1	29.0	25.2	25.8	26.1	25.8	24.6	22.9	22.3
54°	831.3	177.1	36.5	27.0	23.2	24.1	23.8	22.3	19.4	17.7	16.8
55°	848.1	178.0	35.1	25.5	22.0	22.3	22.6	19.7	15.9	14.2	13.6
57.5°	881.1	175.9	31.6	22.3	19.4	18.3	18.0	13.0	8.7	7.5	7.0
60°	864.6	158.8	28.7	19.1	16.5	14.8	12.2	7.2	4.3	3.2	3.2
62.5°	799.7	134.8	25.5	15.7	13.6	11.3	6.4	4.1	2.0	1.2	0.9
65°	715.3	113.3	22.9	12.5	10.7	7.2	3.5	2.6	0.9	0.0	0.0
67.5°	531.9	84.1	19.4	9.9	8.1	4.6	2.3	1.4	0.3	0.0	0.0
70°	246.4	51.3	16.5	7.5	5.8	3.5	1.7	0.9	0.0	0.0	0.0
72.5°	70.7	32.2	13.6	5.5	4.1	2.9	1.4	0.6	0.3	0.0	0.0
75°	24.6	25.8	10.1	4.1	3.2	2.0	1.2	0.6	0.3	0.0	0.0
77.5°	14.8	20.9	6.4	3.5	2.6	1.7	1.2	0.6	0.3	0.3	0.0
80°	8.4	13.9	4.1	2.9	2.3	1.4	0.9	0.6	0.3	0.3	0.0
82.5°	4.6	6.7	3.2	2.6	2.0	1.4	0.9	0.6	0.3	0.3	0.3
85°	3.8	3.5	2.6	2.3	1.7	1.2	0.9	0.3	0.0	0.0	0.0
87.5°	2.9	2.3	2.3	2.3	1.7	1.2	0.9	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)