

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: P200085

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-AFL-800-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4300.5 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G0

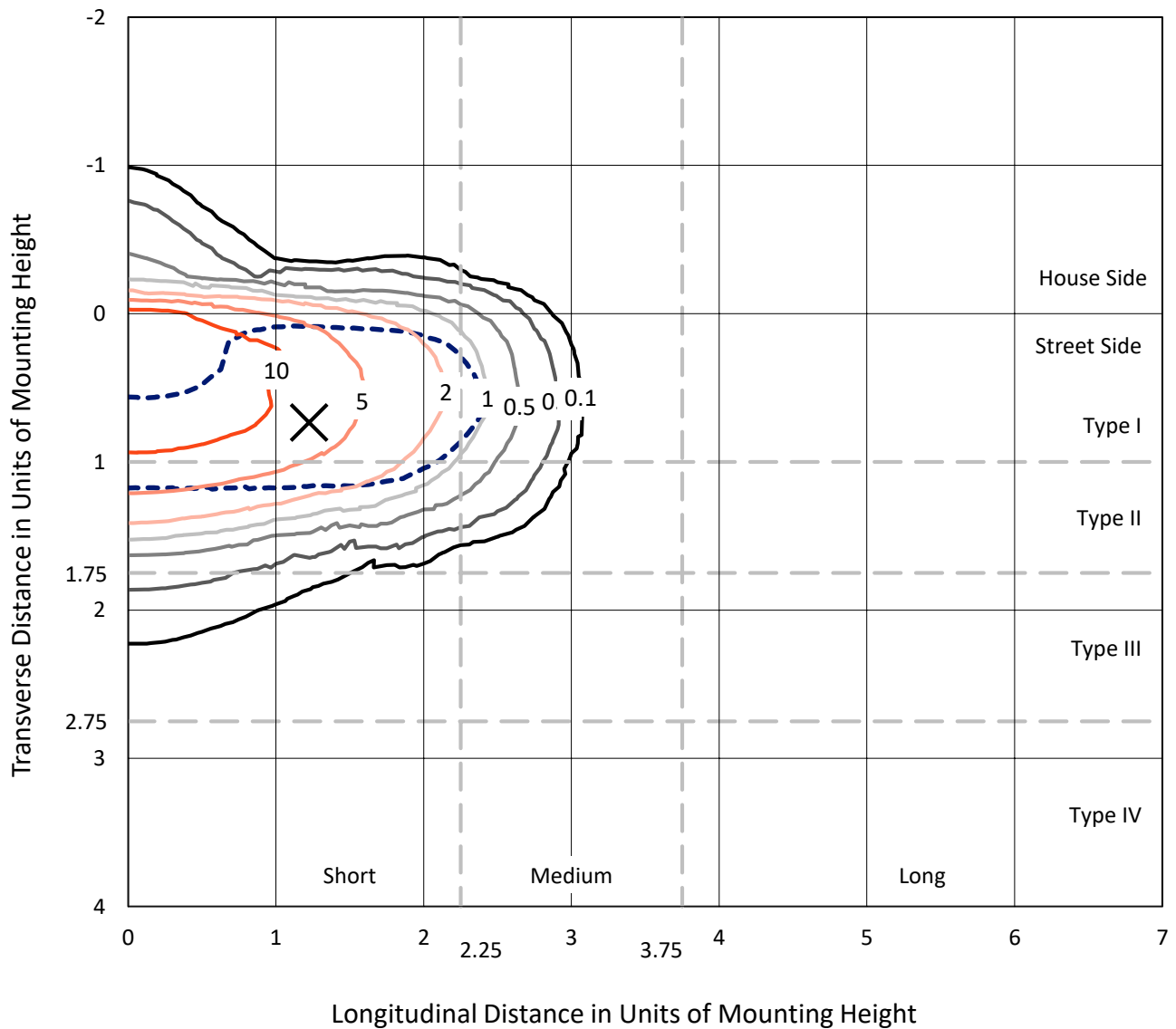
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

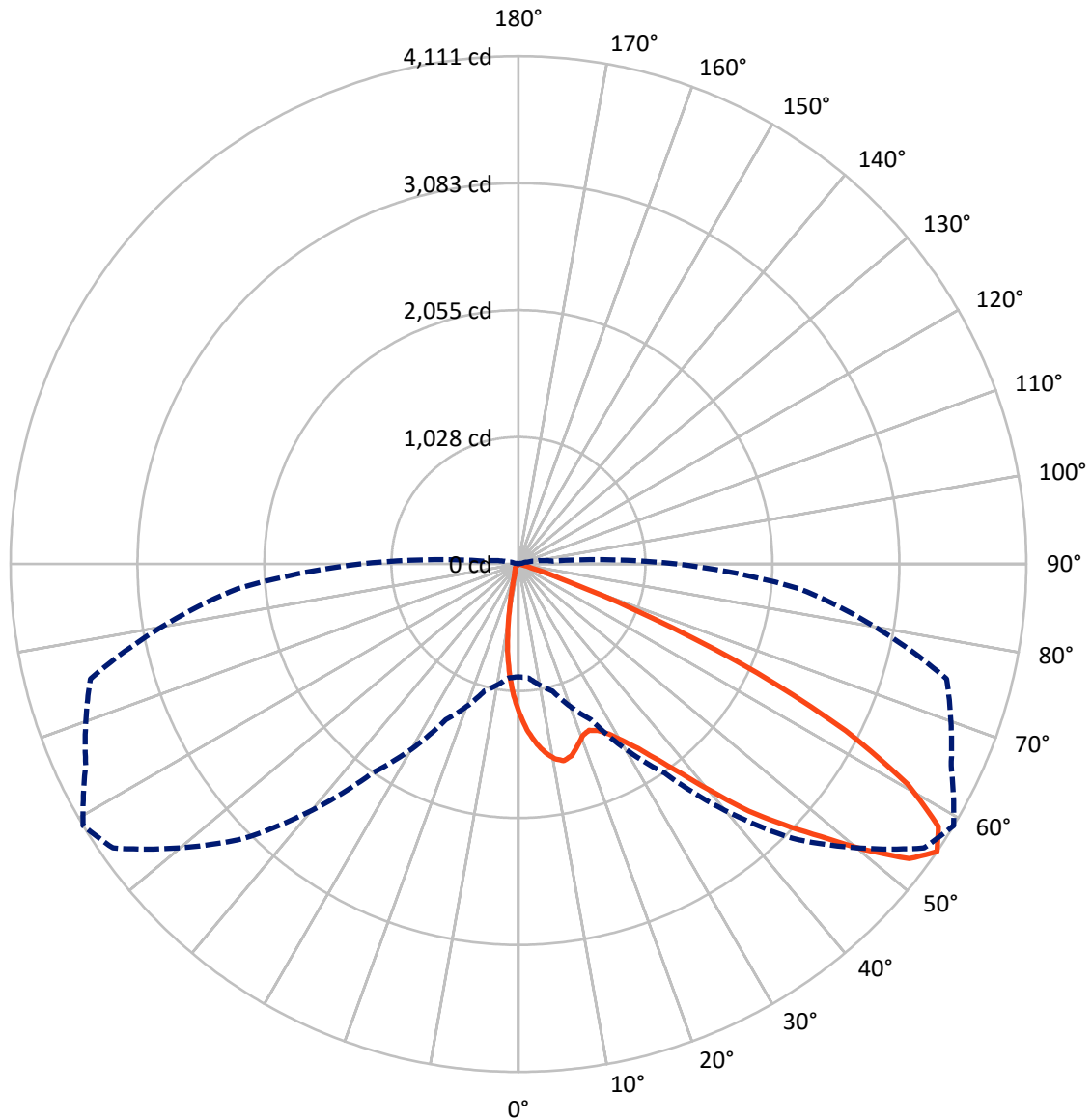
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	240.2	0.0	240.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	4060.3	0.0	4060.3
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	4300.5	0.0	4300.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.4	2.4
10°-20°	242.8	5.6
20°-30°	413.1	9.6
30°-40°	710.5	16.5
40°-50°	1096.9	25.5
50°-60°	1102.7	25.6
60°-70°	565.5	13.1
70°-80°	61.3	1.4
80°-90°	6.4	0.1
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°	4300.5	100.0
0°-180°	4300.5	100.0

**Coefficient of Utilization**



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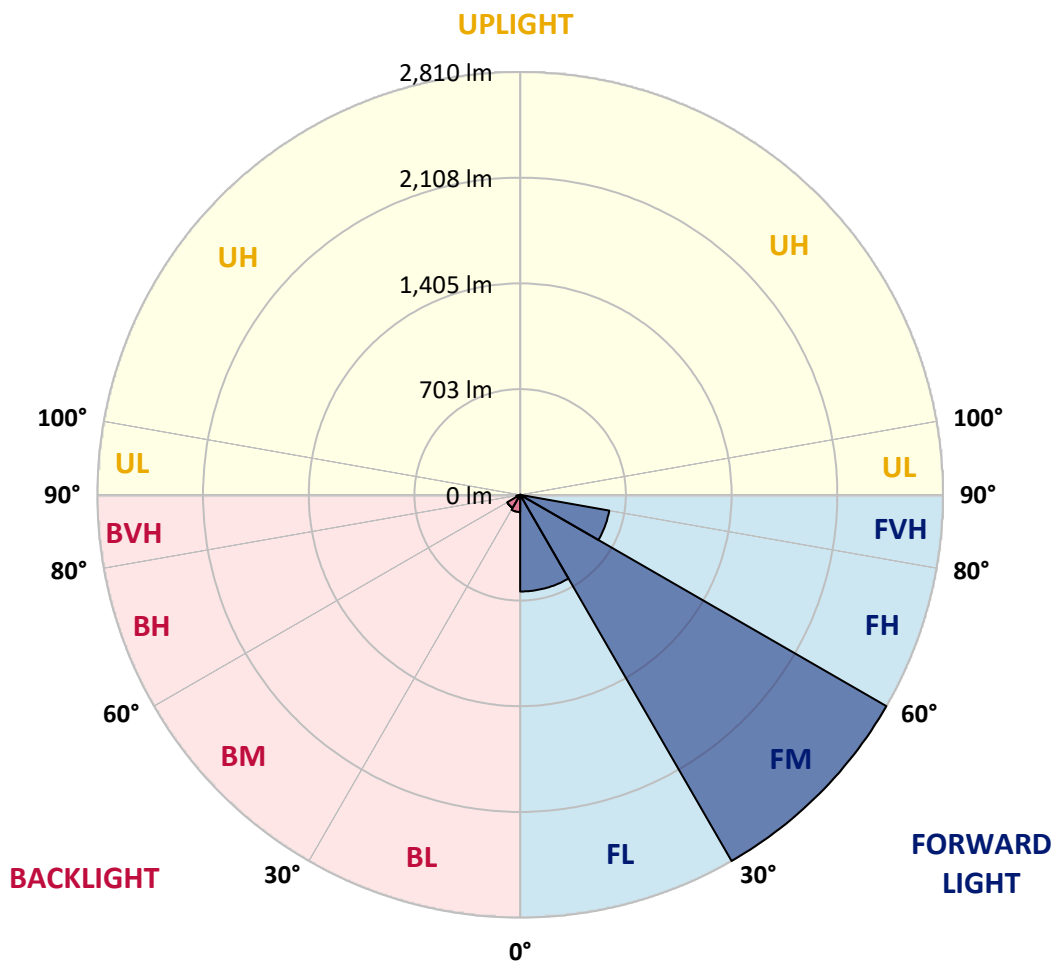
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	642.6	14.9			
FM	(30°-60°)	2810.4	65.3			
FH	(60°-80°)	601.0	14.0			G0/660
FVH	(80°-90°)	6.3	0.1			G0/10
BL	(0°-30°)	114.6	2.7	B1/500		
BM	(30°-60°)	99.7	2.3	B0/220		
BH	(60°-80°)	25.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6
2.5°	1432.3	1417.2	1412.6	1409.5	1395.6	1378.1	1354.2	1343.0	1320.2	1283.4	1238.3
5°	1563.6	1560.8	1550.7	1545.1	1530.1	1505.2	1467.1	1448.9	1412.6	1350.7	1269.7
7.5°	1506.2	1523.8	1537.7	1561.0	1590.5	1589.5	1557.5	1538.4	1497.9	1416.2	1304.8
10°	1284.7	1298.8	1321.8	1374.7	1482.9	1578.3	1615.9	1602.1	1569.7	1476.3	1338.5
12.5°	1241.2	1239.7	1243.8	1259.3	1315.9	1451.9	1605.9	1633.7	1627.0	1531.4	1370.4
15°	1264.4	1262.6	1262.1	1267.4	1281.1	1338.5	1531.7	1611.0	1662.1	1582.4	1397.7
17.5°	1329.1	1321.4	1317.5	1313.1	1309.1	1323.3	1442.3	1547.8	1667.4	1627.0	1420.2
20°	1440.0	1427.3	1412.3	1387.9	1365.1	1358.1	1404.7	1482.9	1648.4	1661.1	1434.9
22.5°	1579.3	1563.1	1537.2	1492.8	1446.4	1419.4	1423.2	1462.3	1619.9	1698.1	1441.7
25°	1735.9	1715.1	1680.6	1618.9	1550.7	1502.9	1478.1	1491.8	1607.0	1741.5	1449.6
27.5°	1903.7	1880.6	1835.4	1751.4	1674.0	1609.5	1558.8	1557.0	1629.0	1798.3	1462.3
30°	2069.9	2066.4	2007.4	1918.6	1816.1	1737.7	1664.6	1655.2	1690.7	1877.0	1487.5
32.5°	2291.7	2265.0	2193.0	2101.7	1983.4	1889.2	1802.6	1780.9	1785.4	1968.7	1526.2
35°	2571.4	2542.2	2440.7	2314.5	2182.4	2071.2	1975.5	1945.8	1934.6	2118.6	1591.7
37.5°	2752.0	2751.5	2687.9	2559.4	2417.5	2295.0	2191.0	2156.2	2133.6	2299.8	1693.3
40°	2757.0	2768.8	2777.2	2776.0	2674.9	2562.0	2469.6	2426.7	2374.2	2541.9	1824.5
42.5°	2608.9	2639.6	2713.5	2838.9	2898.7	2853.8	2776.0	2733.8	2655.7	2801.0	1984.4
45°	2408.9	2430.3	2559.4	2790.4	3020.1	3143.2	3083.8	3008.4	2905.4	3071.3	2127.7
47.5°	2319.3	2323.2	2406.7	2660.2	3029.3	3380.2	3416.2	3293.7	3132.3	3289.1	2240.0
50°	2051.6	2058.5	2173.7	2434.6	2922.2	3492.1	3750.2	3634.0	3379.7	3456.9	2280.8
52.5°	1546.3	1556.0	1702.2	2063.8	2627.8	3444.4	3989.3	3961.2	3650.7	3538.8	2283.1
55°	912.4	925.1	1064.7	1389.3	2066.9	3140.9	4007.1	4110.6	3864.7	3587.3	2279.5
57.5°	426.2	435.0	515.0	715.7	1285.4	2482.3	3739.6	4008.1	3982.7	3613.0	2304.6
60°	226.4	228.9	248.2	309.9	580.9	1574.0	3217.5	3619.3	3875.1	3648.5	2335.4
62.5°	173.1	173.8	172.9	180.1	244.2	698.7	2432.1	2975.5	3441.9	3621.9	2301.3
65°	150.0	151.3	144.1	142.4	156.6	249.2	1444.8	2120.9	2704.6	3262.2	2069.6
67.5°	134.5	135.0	126.4	119.1	121.5	134.7	570.0	1161.0	1790.3	2391.1	1500.2
70°	123.9	123.4	114.0	102.3	99.0	92.2	181.2	425.6	855.5	1212.6	697.7
72.5°	109.7	109.9	105.4	90.1	82.2	64.4	84.0	124.1	255.3	330.4	163.5
75°	97.2	96.0	90.3	80.7	67.7	42.4	41.6	55.3	78.7	78.2	35.3
77.5°	70.3	69.0	70.8	66.3	52.1	27.4	20.8	26.6	32.0	31.0	9.9
80°	51.6	50.7	45.7	55.0	45.9	18.8	13.0	14.2	16.5	13.9	3.1
82.5°	35.3	35.0	32.2	30.5	26.2	11.5	8.1	8.9	10.6	7.9	1.5
85°	5.6	6.3	23.3	18.5	15.4	5.1	5.6	6.1	7.1	4.3	0.5
87.5°	0.0	0.0	10.9	9.6	3.1	2.0	3.3	3.6	3.6	2.3	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6
2.5°	1215.2	1189.8	1142.8	1094.4	1049.4	995.8	959.0	931.4	899.4	890.8	909.6
5°	1223.6	1175.6	1074.5	964.6	861.3	746.9	659.3	590.0	527.3	506.1	525.4
7.5°	1236.7	1165.3	1000.7	819.7	640.1	461.4	339.1	258.6	207.4	192.1	200.2
10°	1249.9	1150.7	915.1	648.1	402.5	224.6	146.2	116.7	105.9	103.5	104.9
12.5°	1260.8	1130.9	810.9	460.8	215.2	120.3	95.6	90.8	89.3	89.3	89.8
15°	1267.4	1100.9	687.2	293.1	123.9	90.8	83.5	81.9	81.9	82.2	82.8
17.5°	1266.6	1062.8	552.0	177.4	92.7	80.4	76.1	74.9	74.6	75.1	75.4
20°	1257.3	1013.1	416.2	117.0	80.7	73.3	69.0	66.7	66.5	67.0	67.5
22.5°	1239.5	951.8	297.7	90.1	72.8	66.5	61.2	59.1	59.1	59.6	60.1
25°	1217.9	876.6	203.6	76.4	65.8	59.1	54.0	52.3	52.8	54.0	54.3
27.5°	1191.0	792.1	138.3	65.5	57.1	51.8	48.0	46.6	48.0	49.7	50.2
30°	1167.9	704.0	98.7	56.6	48.5	44.7	42.4	42.4	44.2	47.5	48.2
32.5°	1150.2	618.8	76.1	50.0	42.1	38.9	37.5	38.9	41.6	44.9	45.7
35°	1147.9	548.4	64.4	44.7	37.5	34.3	33.8	36.0	38.9	41.3	41.8
37.5°	1165.3	483.4	58.1	40.3	33.5	30.5	30.0	32.7	35.5	38.6	39.4
40°	1198.7	432.5	53.5	36.3	30.2	26.9	25.9	27.9	31.7	35.8	36.8
42.5°	1241.8	390.4	48.5	32.2	26.9	22.3	21.1	23.3	27.4	31.7	33.0
45°	1282.9	354.0	42.9	27.6	22.6	17.3	16.8	19.8	21.8	26.2	27.1
47.5°	1305.5	322.0	38.1	22.6	17.5	13.9	13.9	14.7	16.8	21.8	22.8
50°	1297.9	296.5	33.0	16.8	12.2	10.6	10.6	10.4	13.4	17.5	18.3
52.5°	1282.7	281.7	28.4	13.0	8.4	7.6	6.9	7.6	9.4	11.2	11.5
55°	1280.3	279.2	23.8	10.4	5.8	5.1	3.8	3.8	3.8	3.6	3.1
57.5°	1298.1	283.3	20.0	8.4	4.3	3.3	2.0	0.0	0.0	0.0	0.0
60°	1316.4	287.6	17.3	5.8	3.1	1.7	0.2	0.0	0.0	0.0	0.0
62.5°	1286.0	277.9	14.4	3.6	2.3	0.7	0.0	0.0	0.0	0.0	0.0
65°	1129.6	236.5	11.5	2.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	803.5	158.4	7.6	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	366.7	66.3	4.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	78.5	20.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.0	14.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.1	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.1	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)