

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: P268979

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268979  
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: GLEON-AF-01-LED-E1-AFL-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA 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: 4862.2 lumens  
Efficiency: N/A  
Efficacy: 72.6 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 - G1

Input Watts (W): 67  
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

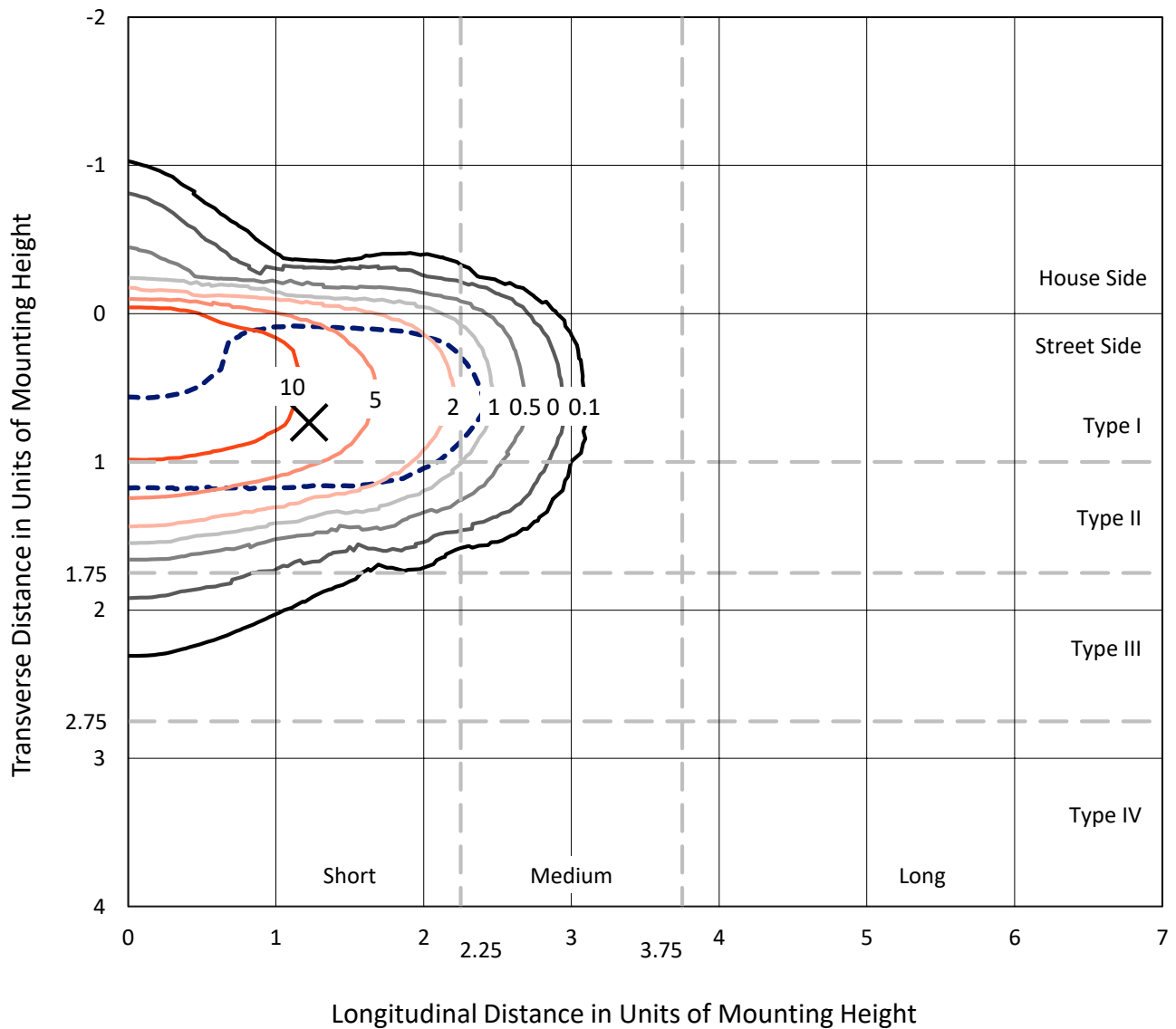


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

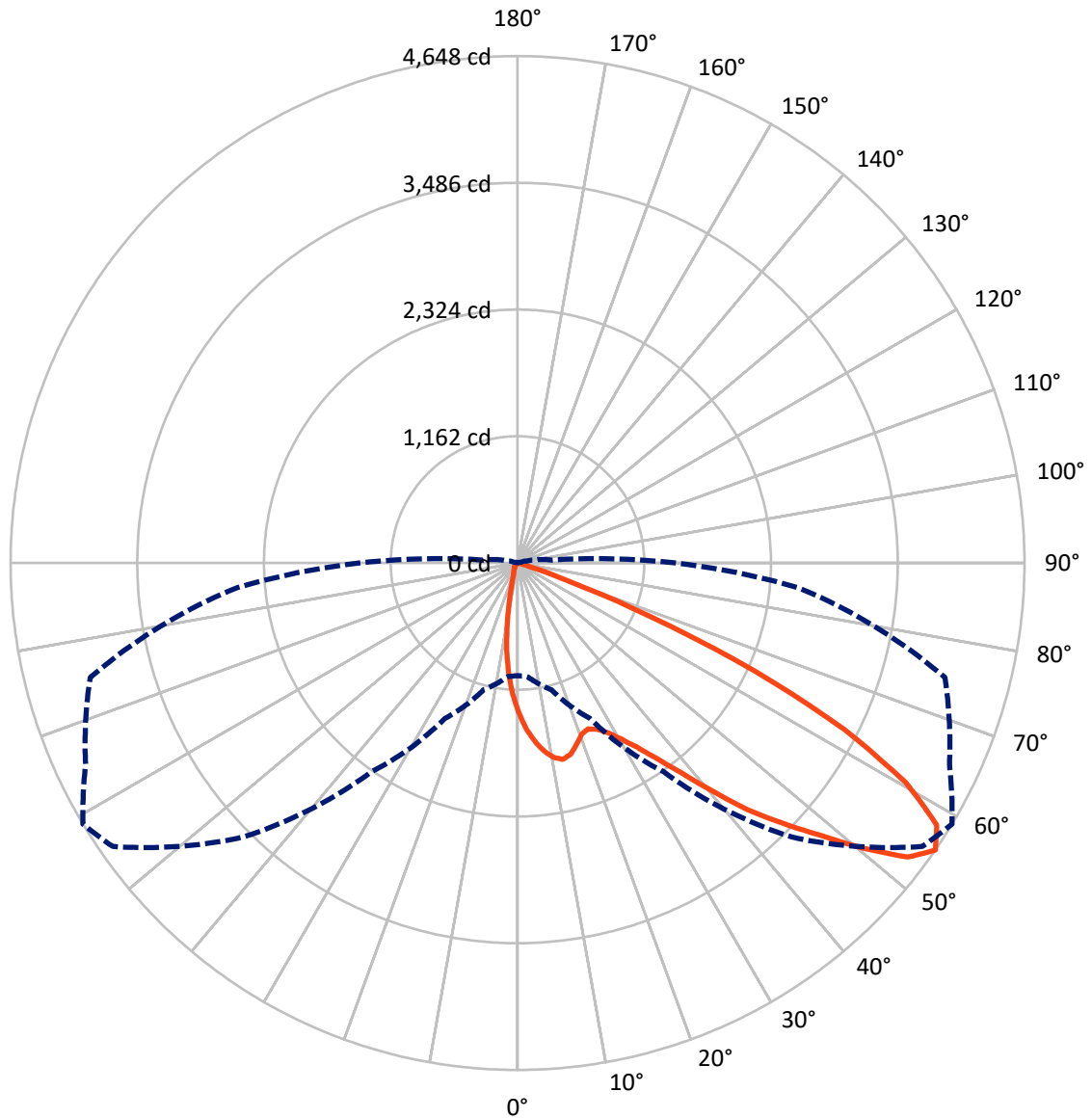


Based on 10 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - Full Cutoff

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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	271.6	0.0	271.6
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	4590.7	0.0	4590.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	4862.2	0.0	4862.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	2.4
10°-20°	274.5	5.6
20°-30°	467.1	9.6
30°-40°	803.3	16.5
40°-50°	1240.2	25.5
50°-60°	1246.7	25.6
60°-70°	639.3	13.1
70°-80°	69.3	1.4
80°-90°	7.2	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°	4862.2	100.0
0°-180°	4862.2	100.0

**Coefficient of Utilization**



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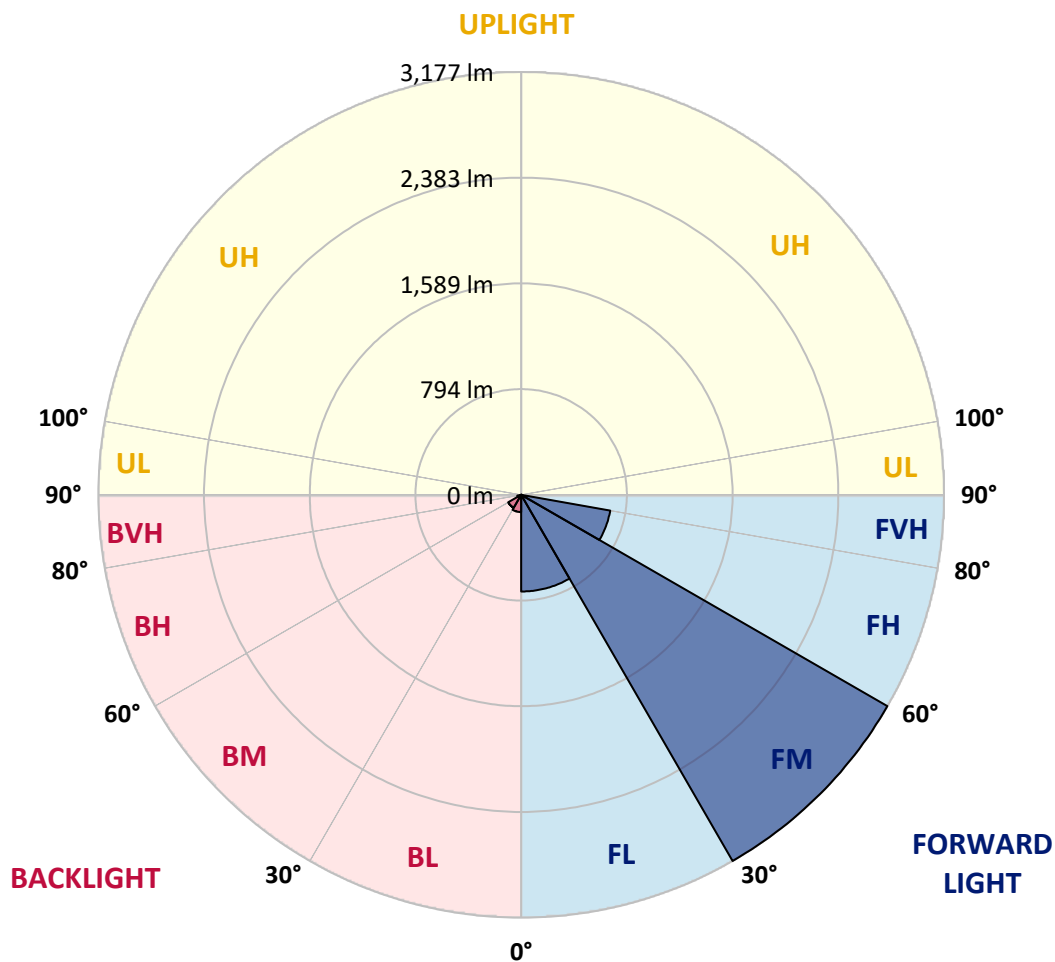
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	726.6	14.9			
FM	(30°-60°)	3177.5	65.3			
FH	(60°-80°)	679.5	14.0			G1/1800
FVH	(80°-90°)	7.1	0.1			G0/10
BL	(0°-30°)	129.6	2.7	B1/500		
BM	(30°-60°)	112.7	2.3	B0/220		
BH	(60°-80°)	29.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1619.6	1602.2	1597.0	1593.7	1578.0	1558.1	1531.2	1518.5	1492.7	1451.0	1400.0
5°	1767.9	1764.7	1753.2	1746.9	1730.0	1701.8	1658.8	1638.1	1597.0	1527.1	1435.6
7.5°	1702.9	1722.8	1738.6	1765.0	1798.2	1797.1	1760.9	1739.5	1693.6	1601.0	1475.1
10°	1452.5	1468.5	1494.4	1554.3	1676.5	1784.6	1827.0	1811.4	1774.7	1669.1	1513.4
12.5°	1403.4	1401.7	1406.2	1423.9	1487.9	1641.7	1815.7	1847.0	1839.5	1731.5	1549.4
15°	1429.6	1427.5	1427.0	1432.9	1448.4	1513.4	1731.8	1821.6	1879.2	1789.1	1580.2
17.5°	1502.8	1494.2	1489.5	1484.5	1480.0	1496.0	1630.8	1750.1	1885.3	1839.5	1605.7
20°	1628.1	1613.7	1596.8	1569.2	1543.5	1535.5	1588.3	1676.5	1863.7	1878.0	1622.3
22.5°	1785.7	1767.2	1738.0	1687.7	1635.3	1604.8	1609.1	1653.3	1831.6	1919.9	1630.2
25°	1962.6	1939.1	1900.2	1830.3	1753.2	1699.2	1671.1	1686.7	1816.9	1968.9	1639.0
27.5°	2152.3	2126.3	2075.2	1980.1	1892.6	1819.7	1762.4	1760.4	1841.9	2033.3	1653.3
30°	2340.3	2336.3	2269.7	2169.2	2053.3	1964.8	1882.0	1871.3	1911.7	2122.2	1681.7
32.5°	2591.2	2561.0	2479.4	2376.1	2242.4	2136.0	2038.2	2013.6	2018.6	2225.8	1725.6
35°	2907.3	2874.2	2759.6	2616.9	2467.5	2341.7	2233.5	2199.9	2187.4	2395.4	1799.8
37.5°	3111.5	3111.0	3039.0	2893.8	2733.5	2594.8	2477.2	2437.8	2412.3	2600.2	1914.5
40°	3117.1	3130.6	3139.9	3138.6	3024.4	2896.7	2792.2	2743.8	2684.3	2873.9	2062.8
42.5°	2949.8	2984.4	3068.0	3209.7	3277.5	3226.6	3138.6	3090.9	3002.6	3167.0	2243.5
45°	2723.7	2747.7	2893.8	3154.8	3414.5	3553.8	3486.6	3401.4	3284.9	3472.6	2405.8
47.5°	2622.3	2626.6	2721.1	3007.7	3424.9	3821.7	3862.5	3724.0	3541.4	3718.8	2532.5
50°	2319.7	2327.4	2457.7	2752.6	3303.8	3948.3	4240.1	4108.7	3821.2	3908.4	2578.8
52.5°	1748.3	1759.2	1924.4	2333.3	2971.0	3894.3	4510.4	4478.6	4127.6	4001.1	2581.3
55°	1031.6	1045.8	1203.6	1570.7	2336.9	3551.2	4530.5	4647.7	4369.5	4055.8	2577.2
57.5°	481.9	491.8	582.2	809.2	1453.4	2806.6	4228.1	4531.7	4502.9	4085.0	2605.8
60°	255.9	258.8	280.6	350.3	656.8	1779.6	3637.9	4092.0	4381.4	4125.0	2640.5
62.5°	195.7	196.5	195.4	203.7	276.0	790.0	2749.7	3364.2	3891.5	4095.0	2602.0
65°	169.6	170.9	163.0	160.9	177.1	281.8	1633.6	2397.9	3057.9	3688.4	2340.1
67.5°	152.1	152.6	142.9	134.6	137.4	152.4	644.4	1312.8	2024.2	2703.5	1696.1
70°	140.0	139.4	128.8	115.6	111.8	104.2	204.9	481.2	967.3	1371.1	788.8
72.5°	124.0	124.2	119.0	101.9	93.0	72.9	95.0	140.3	288.6	373.5	184.8
75°	110.0	108.4	102.1	91.3	76.6	47.9	47.0	62.5	88.9	88.4	39.9
77.5°	79.5	78.1	80.0	74.9	58.7	31.0	23.5	30.2	36.1	35.0	11.1
80°	58.2	57.4	51.7	62.3	51.9	21.2	14.6	16.1	18.7	15.8	3.5
82.5°	39.9	39.5	36.4	34.5	29.6	12.9	9.3	10.1	12.0	9.0	1.7
85°	6.3	7.1	26.4	20.9	17.4	5.7	6.3	6.8	8.1	4.9	0.5
87.5°	0.0	0.0	12.3	10.9	3.5	2.2	3.8	4.0	4.0	2.5	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°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1373.9	1345.2	1292.1	1237.2	1186.5	1125.9	1084.3	1053.1	1016.9	1007.2	1028.4
5°	1383.3	1329.1	1214.9	1090.6	973.9	844.4	745.5	667.1	596.3	572.2	594.0
7.5°	1398.2	1317.6	1131.4	926.8	723.7	521.6	383.3	292.4	234.5	217.2	226.5
10°	1413.2	1300.9	1034.7	732.8	455.1	254.0	165.3	132.1	119.7	117.0	118.4
12.5°	1425.5	1278.6	916.8	521.0	243.4	136.1	108.2	102.8	101.0	101.0	101.6
15°	1432.9	1244.7	777.0	331.5	140.0	102.8	94.4	92.6	92.6	93.0	93.6
17.5°	1432.1	1201.8	624.1	200.6	104.7	91.0	86.1	84.6	84.4	84.9	85.2
20°	1421.5	1145.5	470.6	132.3	91.3	83.0	78.1	75.5	75.2	75.7	76.4
22.5°	1401.4	1076.0	336.5	101.9	82.4	75.2	69.2	66.8	66.8	67.5	68.0
25°	1377.0	991.1	230.1	86.3	74.3	66.8	61.2	59.1	59.6	61.2	61.4
27.5°	1346.6	895.5	156.3	74.0	64.6	58.5	54.3	52.8	54.3	56.2	56.9
30°	1320.5	796.0	111.6	64.0	54.7	50.6	47.9	47.9	49.9	53.7	54.4
32.5°	1300.4	699.6	86.1	56.6	47.6	43.8	42.5	43.8	47.0	50.8	51.7
35°	1297.8	620.1	72.9	50.6	42.5	38.7	38.2	40.8	43.8	46.8	47.3
37.5°	1317.6	546.6	65.7	45.6	37.9	34.5	33.9	37.0	40.2	43.6	44.5
40°	1355.3	488.9	60.5	41.1	34.1	30.5	29.3	31.6	35.8	40.5	41.6
42.5°	1404.1	441.2	54.7	36.4	30.5	25.2	23.9	26.4	31.0	35.8	37.3
45°	1450.6	400.3	48.5	31.4	25.5	19.6	19.0	22.4	24.7	29.6	30.7
47.5°	1476.1	364.2	43.1	25.5	19.9	15.8	15.8	16.7	19.0	24.7	25.8
50°	1467.4	335.2	37.3	19.0	13.7	12.0	12.0	11.8	15.2	19.9	20.7
52.5°	1450.3	318.4	32.1	14.6	9.4	8.7	7.7	8.7	10.6	12.7	12.9
55°	1447.6	315.7	26.9	11.8	6.6	5.7	4.3	4.3	4.3	4.0	3.5
57.5°	1467.7	320.2	22.6	9.4	4.9	3.8	2.2	0.0	0.0	0.0	0.0
60°	1488.3	325.0	19.6	6.6	3.5	1.9	0.3	0.0	0.0	0.0	0.0
62.5°	1453.9	314.1	16.3	4.0	2.5	0.9	0.0	0.0	0.0	0.0	0.0
65°	1277.2	267.4	12.9	2.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	908.5	179.0	8.7	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	414.7	74.9	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	88.7	23.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.1	16.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.7	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.5	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.9	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)