

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: P300601

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300601  
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: GLNA-AF-01-LED-E1-AFL-7030-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

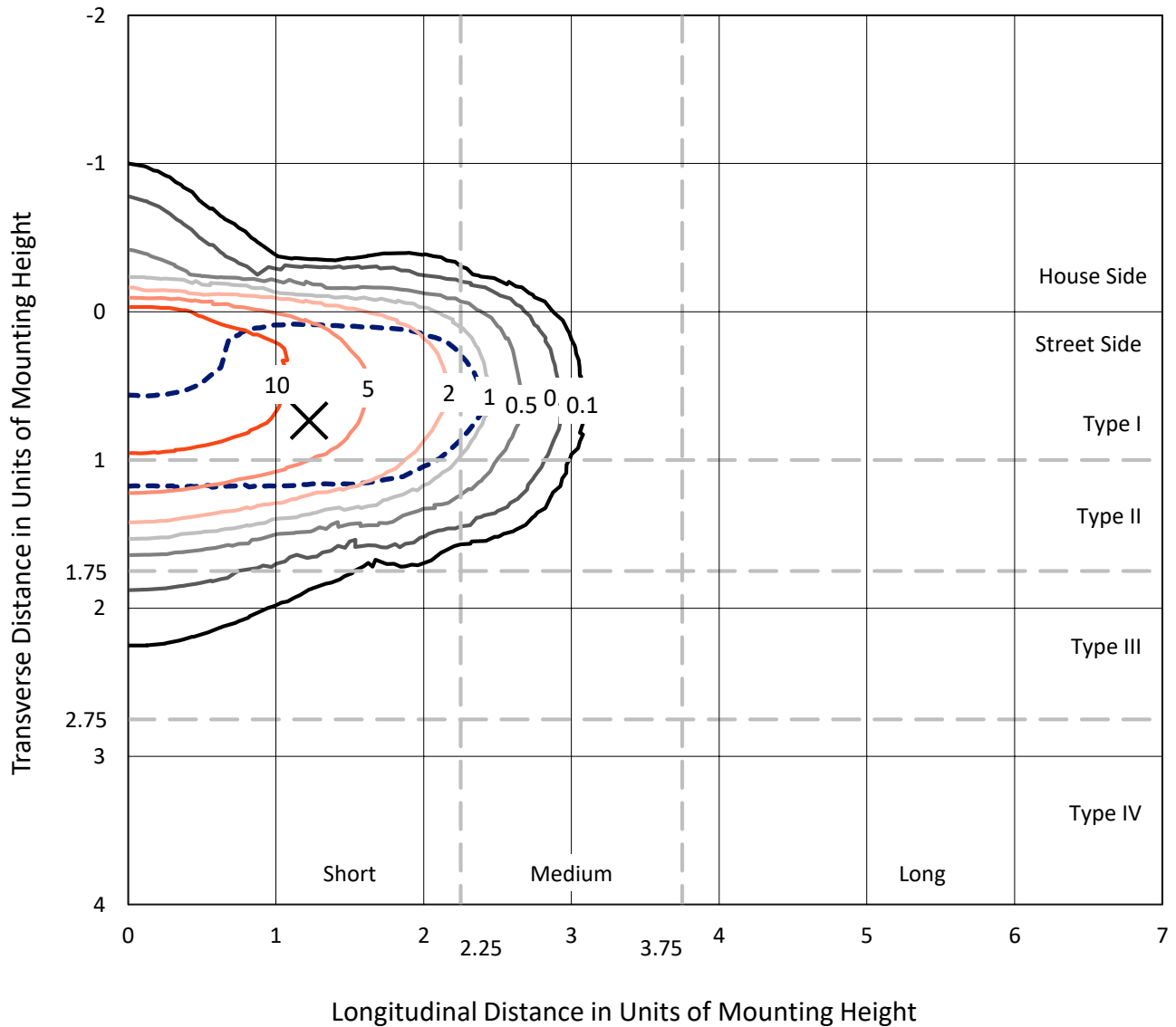
Lumens per Lamp: N/A  
Luminaire Lumens: 4483.3 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (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



REPORT NUMBER: P300601  
 CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

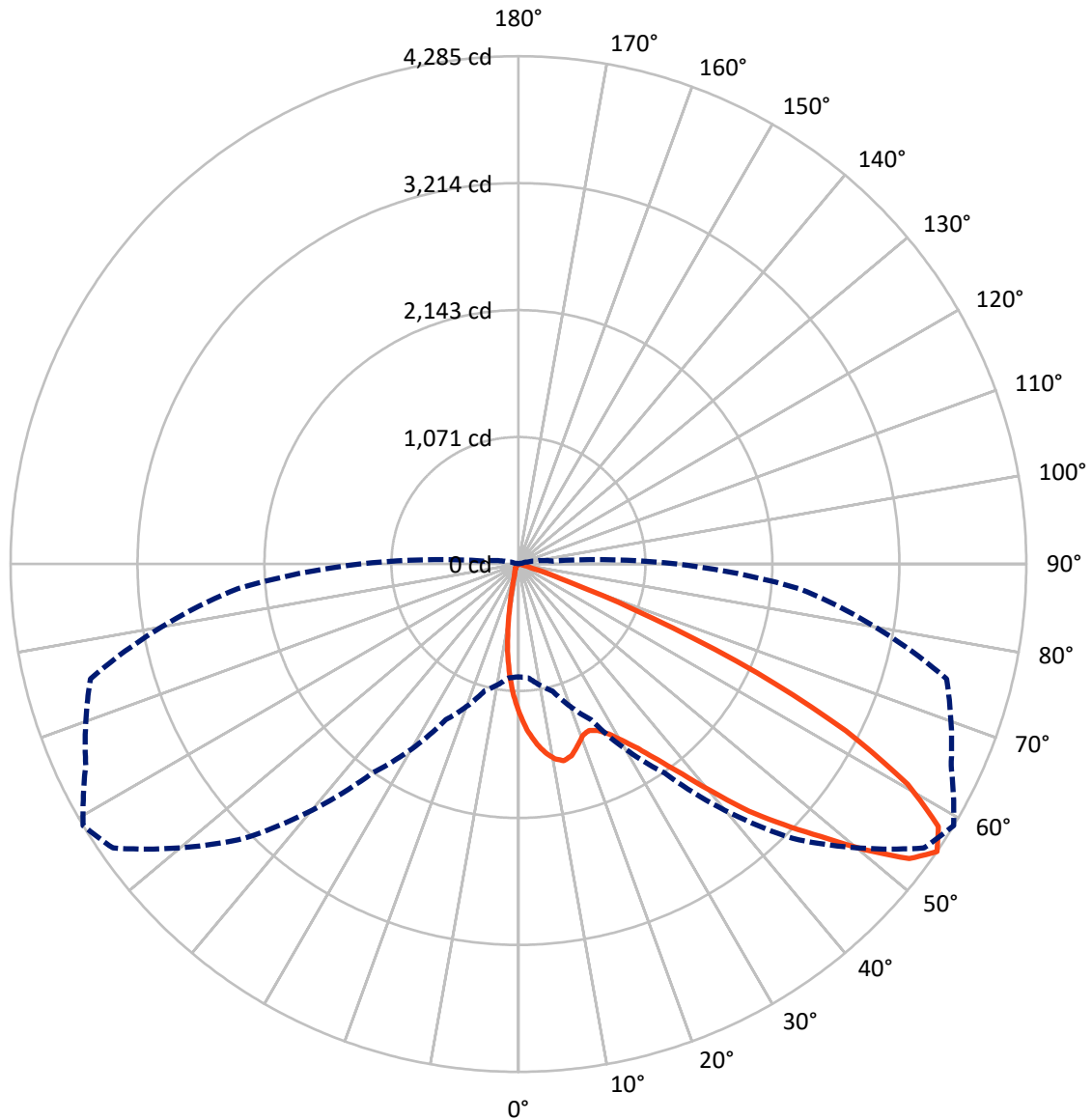
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300601  
CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7030-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300601

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7030-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	250.4	0.0	250.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	4232.9	0.0	4232.9
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	4483.3	0.0	4483.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	2.4
10°-20°	253.1	5.6
20°-30°	430.7	9.6
30°-40°	740.7	16.5
40°-50°	1143.5	25.5
50°-60°	1149.6	25.6
60°-70°	589.5	13.1
70°-80°	63.9	1.4
80°-90°	6.7	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°	4483.3	100.0
0°-180°	4483.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300601

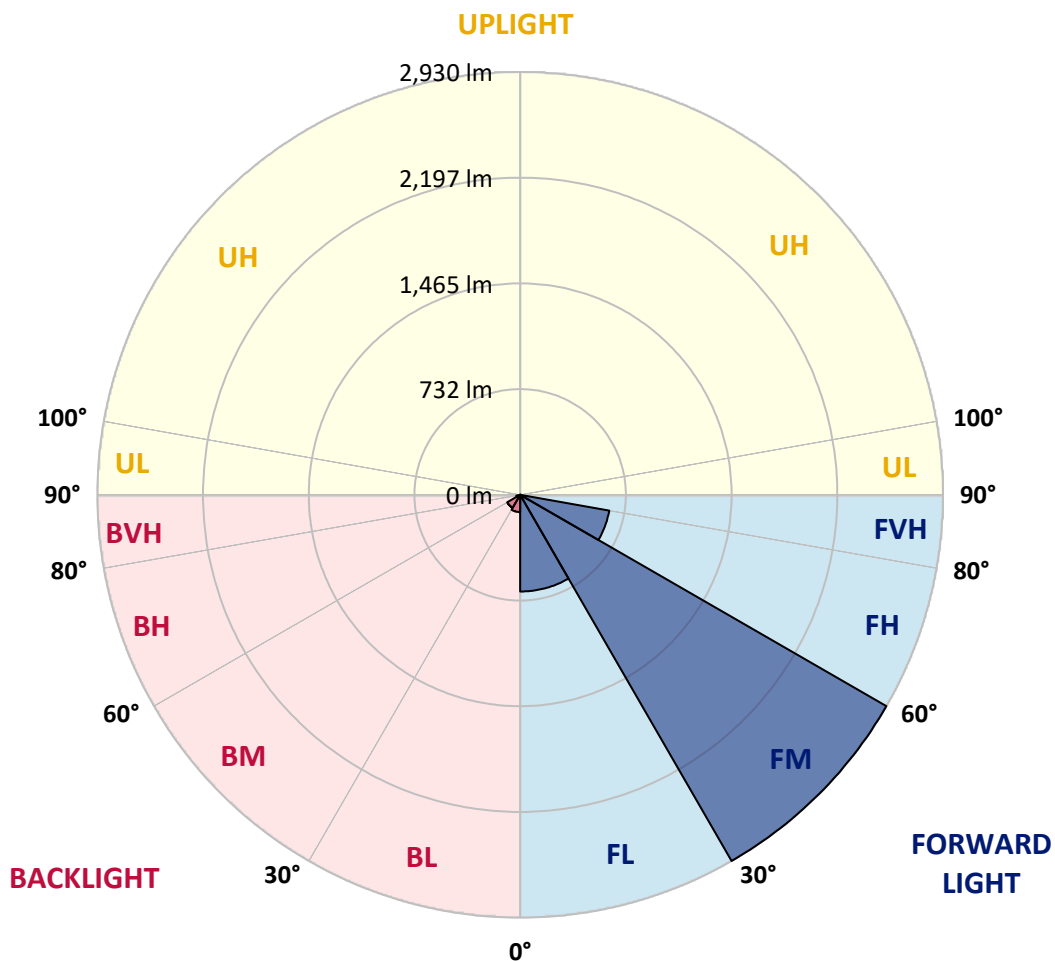
CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7030-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	669.9	14.9			
FM	(30°-60°)	2929.8	65.3			
FH	(60°-80°)	626.6	14.0			G0/660
FVH	(80°-90°)	6.5	0.1			G0/10
BL	(0°-30°)	119.5	2.7	B1/500		
BM	(30°-60°)	103.9	2.3	B0/220		
BH	(60°-80°)	26.8	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





REPORT NUMBER: P300601

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7030-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0
2.5°	1493.3	1477.4	1472.6	1469.5	1454.9	1436.7	1411.8	1400.1	1376.3	1338.0	1290.9
5°	1630.1	1627.1	1616.6	1610.7	1595.1	1569.2	1529.5	1510.5	1472.6	1408.1	1323.7
7.5°	1570.3	1588.5	1603.1	1627.4	1658.1	1657.0	1623.7	1603.9	1561.5	1476.3	1360.2
10°	1339.3	1354.1	1377.9	1433.2	1545.9	1645.4	1684.6	1670.3	1636.4	1539.0	1395.4
12.5°	1294.0	1292.5	1296.7	1312.8	1371.8	1513.6	1674.2	1703.1	1696.2	1596.5	1428.7
15°	1318.1	1316.3	1315.7	1321.3	1335.6	1395.4	1596.7	1679.5	1732.7	1649.6	1457.0
17.5°	1385.6	1377.7	1373.4	1368.9	1364.7	1379.5	1503.6	1613.7	1738.3	1696.2	1480.6
20°	1501.2	1488.0	1472.4	1447.0	1423.2	1415.7	1464.4	1545.9	1718.4	1731.7	1495.9
22.5°	1646.5	1629.5	1602.5	1556.2	1507.8	1479.8	1483.7	1524.5	1688.8	1770.3	1503.1
25°	1809.7	1788.0	1752.0	1687.7	1616.6	1566.8	1540.9	1555.2	1675.3	1815.5	1511.3
27.5°	1984.6	1960.5	1913.4	1825.8	1745.1	1677.9	1625.0	1623.2	1698.3	1874.8	1524.5
30°	2157.9	2154.2	2092.8	2000.2	1893.3	1811.6	1735.4	1725.6	1762.6	1956.8	1550.7
32.5°	2389.1	2361.3	2286.2	2191.0	2067.7	1969.5	1879.3	1856.5	1861.3	2052.3	1591.2
35°	2680.7	2650.3	2544.4	2412.9	2275.1	2159.2	2059.5	2028.5	2016.9	2208.7	1659.4
37.5°	2869.1	2868.5	2802.1	2668.3	2520.4	2392.6	2284.1	2247.8	2224.3	2397.6	1765.3
40°	2874.1	2886.5	2895.3	2893.9	2788.6	2670.9	2574.6	2529.9	2475.1	2650.0	1902.0
42.5°	2719.8	2751.9	2828.9	2959.6	3022.0	2975.2	2893.9	2850.0	2768.5	2920.1	2068.7
45°	2511.4	2533.6	2668.3	2909.0	3148.5	3276.8	3214.9	3136.3	3028.9	3201.9	2218.2
47.5°	2418.0	2421.9	2509.0	2773.3	3158.0	3523.9	3561.5	3433.7	3265.4	3428.9	2335.2
50°	2138.8	2146.0	2266.1	2538.1	3046.3	3640.6	3909.6	3788.5	3523.4	3603.8	2377.8
52.5°	1612.1	1622.1	1774.5	2151.5	2739.4	3590.8	4158.9	4129.5	3805.9	3689.3	2380.1
55°	951.2	964.4	1109.9	1448.3	2154.7	3274.4	4177.4	4285.3	4029.0	3739.8	2376.4
57.5°	444.2	453.5	536.8	746.1	1340.1	2587.8	3898.5	4178.5	4152.0	3766.5	2402.6
60°	236.0	238.6	258.8	323.0	605.6	1640.9	3354.3	3773.1	4039.8	3803.6	2434.6
62.5°	180.4	181.2	180.2	187.8	254.5	728.4	2535.4	3101.9	3588.2	3775.8	2399.2
65°	156.4	157.7	150.3	148.4	163.2	259.8	1506.2	2211.1	2819.6	3400.9	2157.6
67.5°	140.2	140.8	131.8	124.1	126.7	140.5	594.2	1210.4	1866.3	2492.8	1563.9
70°	129.1	128.6	118.8	106.6	103.2	96.0	188.9	443.7	891.9	1264.1	727.3
72.5°	114.3	114.6	109.8	93.9	85.7	67.2	87.6	129.4	266.2	344.5	170.4
75°	101.3	100.0	94.2	84.1	70.6	44.2	43.4	57.7	82.0	81.5	36.8
77.5°	73.3	72.0	73.8	69.1	54.2	28.6	21.7	27.8	33.3	32.3	10.3
80°	53.7	52.9	47.6	57.4	47.9	19.6	13.5	14.8	17.2	14.6	3.2
82.5°	36.8	36.5	33.6	31.7	27.3	11.9	8.5	9.3	11.1	8.2	1.6
85°	5.8	6.6	24.3	19.3	16.1	5.3	5.8	6.3	7.4	4.5	0.5
87.5°	0.0	0.0	11.4	10.1	3.2	2.1	3.4	3.7	3.7	2.4	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



REPORT NUMBER: P300601

CATALOG NUMBER: GLNA-AF-01-LED-E1-AFL-7030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0	1262.0
2.5°	1266.8	1240.3	1191.4	1140.9	1094.0	1038.2	999.8	971.0	937.7	928.7	948.2
5°	1275.5	1225.5	1120.2	1005.7	898.0	778.6	687.4	615.1	549.8	527.6	547.7
7.5°	1289.3	1214.9	1043.2	854.6	667.3	481.0	353.5	269.6	216.2	200.3	208.8
10°	1303.0	1199.6	954.1	675.7	419.6	234.2	152.4	121.7	110.3	107.9	109.3
12.5°	1314.4	1179.0	845.3	480.5	224.4	125.4	99.7	94.7	93.1	93.1	93.7
15°	1321.3	1147.7	716.5	305.6	129.1	94.7	87.0	85.5	85.5	85.7	86.3
17.5°	1320.5	1108.0	575.5	184.9	96.6	83.9	79.4	78.1	77.8	78.3	78.6
20°	1310.7	1056.2	433.9	122.0	84.1	76.5	72.0	69.6	69.3	69.8	70.4
22.5°	1292.2	992.2	310.3	93.9	75.9	69.3	63.8	61.6	61.6	62.2	62.7
25°	1269.7	913.8	212.2	79.6	68.5	61.6	56.4	54.5	55.0	56.4	56.6
27.5°	1241.7	825.7	144.2	68.3	59.5	54.0	50.0	48.7	50.0	51.9	52.4
30°	1217.6	733.9	102.9	59.0	50.5	46.6	44.2	44.2	46.0	49.5	50.3
32.5°	1199.1	645.0	79.4	52.1	43.9	40.5	39.2	40.5	43.4	46.8	47.6
35°	1196.7	571.8	67.2	46.6	39.2	35.7	35.2	37.6	40.5	43.1	43.7
37.5°	1214.9	504.0	60.6	42.1	34.9	31.7	31.2	34.1	37.0	40.2	41.0
40°	1249.6	450.8	55.8	37.8	31.5	28.0	27.0	29.1	33.1	37.3	38.4
42.5°	1294.6	406.9	50.5	33.6	28.0	23.3	22.0	24.3	28.6	33.1	34.4
45°	1337.4	369.1	44.7	28.8	23.5	18.0	17.5	20.6	22.8	27.3	28.3
47.5°	1361.0	335.7	39.7	23.5	18.3	14.6	14.6	15.3	17.5	22.8	23.8
50°	1353.0	309.0	34.4	17.5	12.7	11.1	11.1	10.8	14.0	18.3	19.0
52.5°	1337.2	293.7	29.6	13.5	8.7	7.9	7.1	7.9	9.8	11.6	11.9
55°	1334.8	291.0	24.9	10.8	6.1	5.3	4.0	4.0	4.0	3.7	3.2
57.5°	1353.3	295.3	20.9	8.7	4.5	3.4	2.1	0.0	0.0	0.0	0.0
60°	1372.4	299.8	18.0	6.1	3.2	1.9	0.3	0.0	0.0	0.0	0.0
62.5°	1340.6	289.7	15.1	3.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0
65°	1177.6	246.6	11.9	2.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	837.6	165.1	7.9	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	382.3	69.1	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	81.8	21.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.7	15.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.3	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.2	17.7	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)