

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: P269935

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269935
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: GPC-AF-01-LED-E1-AFL-7027-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 2977.8 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

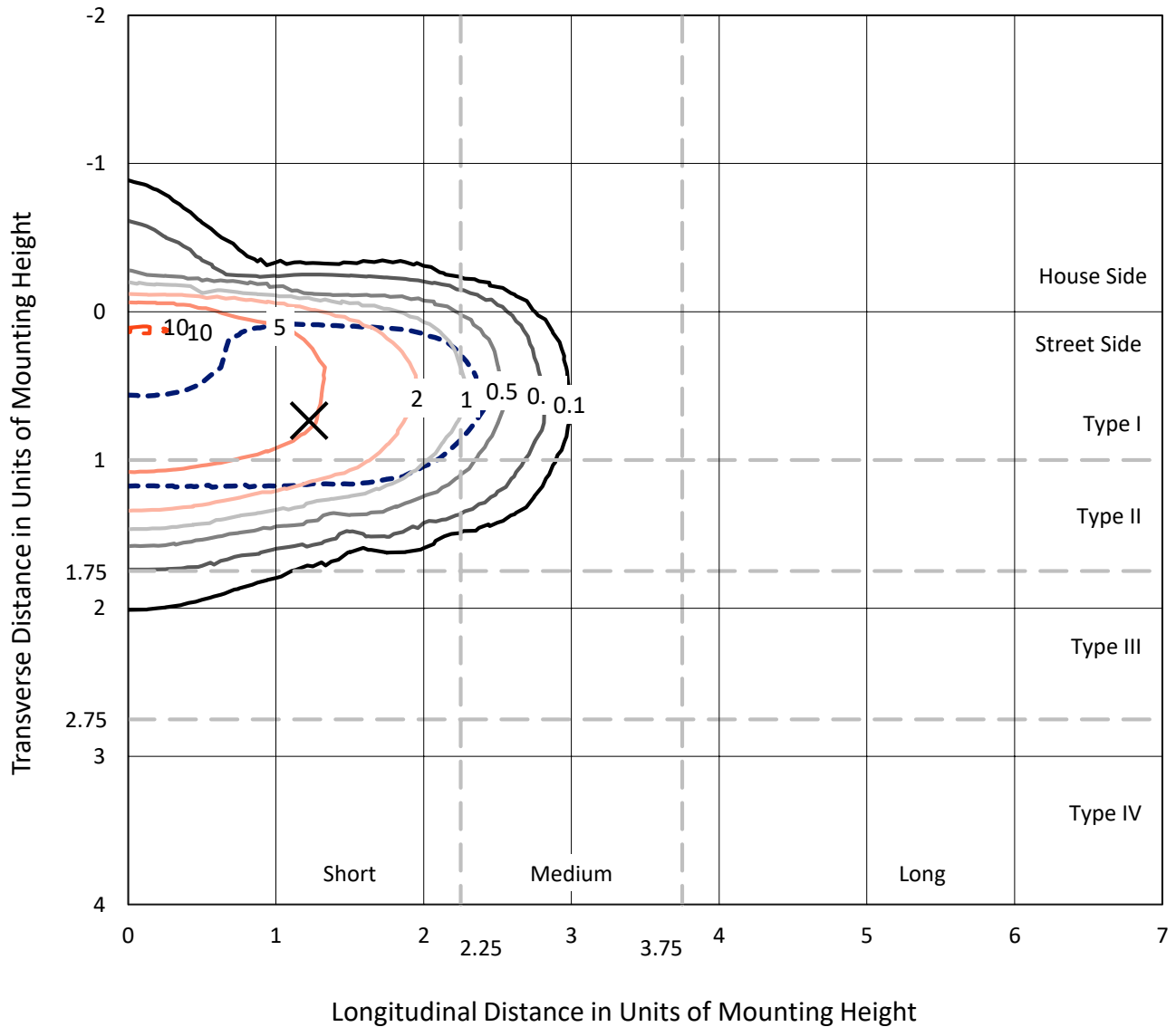
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

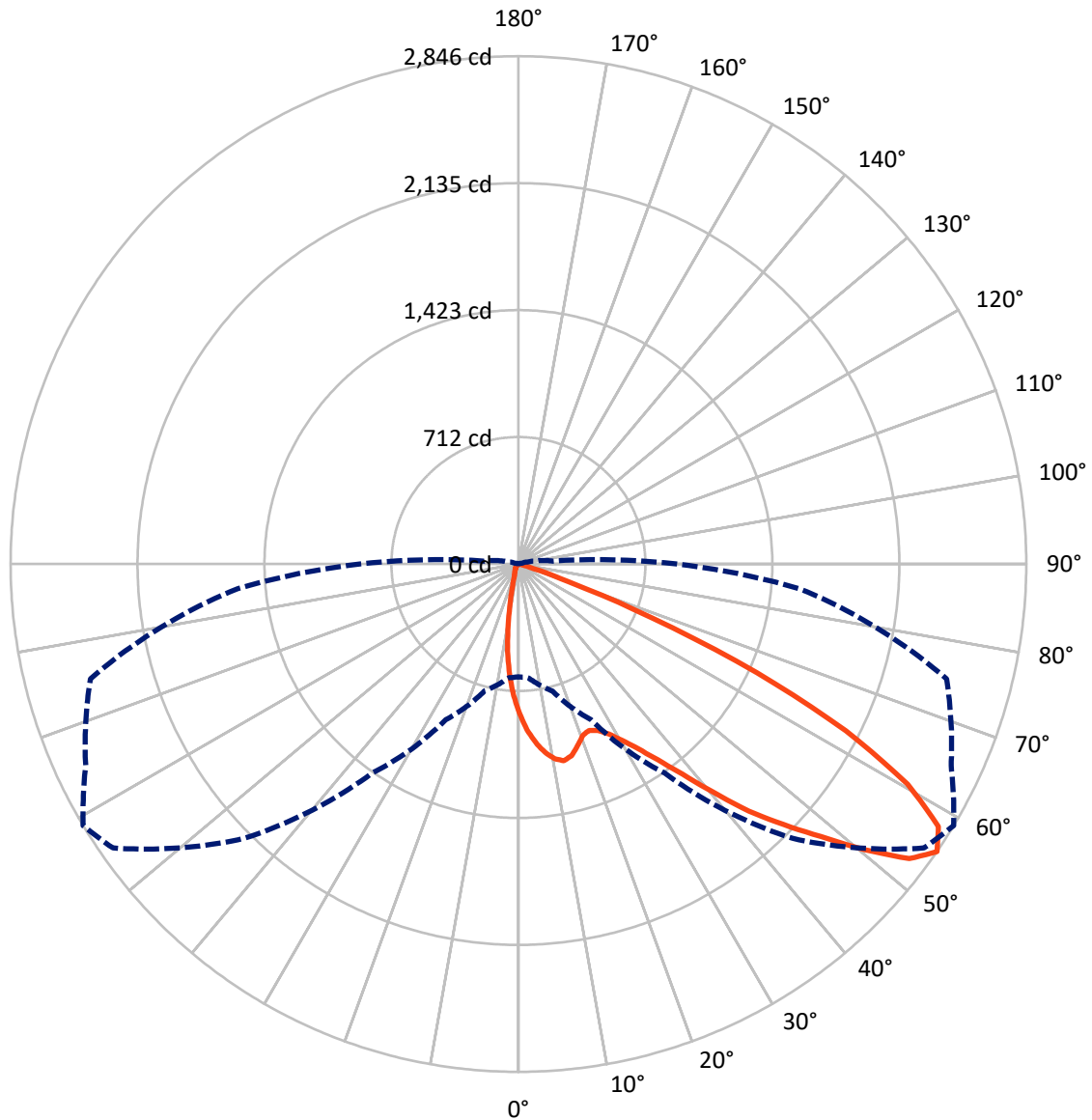


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	166.3	0.0	166.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	2811.5	0.0	2811.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	2977.8	0.0	2977.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	2.4
10°-20°	168.1	5.6
20°-30°	286.1	9.6
30°-40°	491.9	16.5
40°-50°	759.5	25.5
50°-60°	763.5	25.6
60°-70°	391.6	13.1
70°-80°	42.4	1.4
80°-90°	4.4	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°	2977.8	100.0
0°-180°	2977.8	100.0

Coefficient of Utilization



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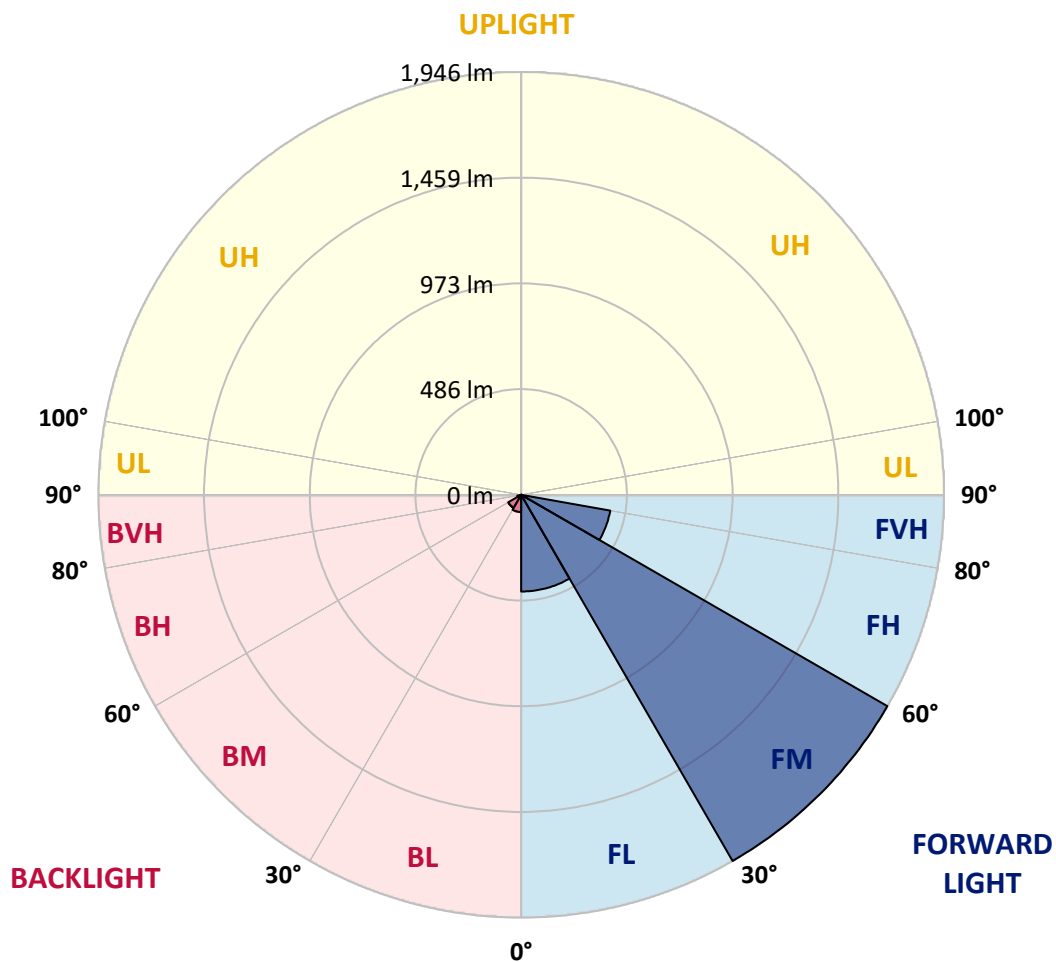
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.0	14.9			
FM (30°-60°)	1946.0	65.3			
FH (60°-80°)	416.2	14.0			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	79.4	2.7	B0/110		
BM (30°-60°)	69.0	2.3	B0/220		
BH (60°-80°)	17.8	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: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	991.8	981.3	978.2	976.0	966.3	954.2	937.7	929.9	914.1	888.7	857.4
5°	1082.6	1080.8	1073.7	1069.8	1059.6	1042.3	1016.0	1003.2	978.2	935.2	879.3
7.5°	1043.0	1055.1	1064.9	1080.9	1101.3	1100.7	1078.4	1065.3	1037.2	980.6	903.4
10°	889.5	899.5	915.3	951.9	1026.9	1092.9	1118.8	1109.3	1086.9	1022.2	926.8
12.5°	859.5	858.5	861.2	872.0	911.2	1005.4	1112.0	1131.1	1126.7	1060.4	949.0
15°	875.5	874.3	874.0	877.6	887.0	926.8	1060.5	1115.5	1150.9	1095.8	967.7
17.5°	920.4	915.1	912.1	909.3	906.4	916.4	998.6	1071.8	1154.5	1126.7	983.5
20°	997.1	988.3	978.0	961.0	945.2	940.3	972.7	1026.9	1141.3	1150.2	993.5
22.5°	1093.5	1082.4	1064.4	1033.7	1001.5	982.8	985.5	1012.6	1121.8	1175.8	998.3
25°	1202.0	1187.6	1163.8	1120.9	1073.7	1040.6	1023.4	1033.0	1112.7	1205.9	1003.8
27.5°	1318.2	1302.2	1270.9	1212.7	1159.2	1114.4	1079.4	1078.1	1128.0	1245.2	1012.6
30°	1433.2	1430.8	1390.0	1328.6	1257.5	1203.2	1152.6	1146.1	1170.8	1299.7	1029.9
32.5°	1586.9	1568.4	1518.6	1455.3	1373.4	1308.1	1248.3	1233.2	1236.2	1363.2	1056.9
35°	1780.5	1760.3	1690.0	1602.7	1511.0	1434.1	1367.8	1347.4	1339.6	1467.0	1102.2
37.5°	1905.7	1905.2	1861.2	1772.3	1674.0	1589.1	1517.1	1493.1	1477.4	1592.4	1172.5
40°	1909.0	1917.3	1923.0	1922.2	1852.2	1774.1	1710.1	1680.4	1644.0	1760.0	1263.3
42.5°	1806.5	1827.8	1879.0	1965.8	2007.3	1976.1	1922.2	1893.0	1838.9	1939.6	1374.0
45°	1668.1	1682.9	1772.3	1932.2	2091.3	2176.5	2135.4	2083.1	2011.8	2126.6	1473.3
47.5°	1606.0	1608.7	1666.4	1842.1	2097.5	2340.5	2365.5	2280.6	2168.9	2277.6	1551.1
50°	1420.6	1425.4	1505.1	1685.8	2023.4	2418.1	2596.8	2516.3	2340.3	2393.7	1579.3
52.5°	1070.7	1077.3	1178.7	1429.1	1819.5	2385.0	2762.4	2742.9	2527.9	2450.3	1580.8
55°	631.8	640.5	737.1	961.9	1431.2	2174.8	2774.7	2846.3	2676.1	2484.0	1578.4
57.5°	295.1	301.2	356.5	495.5	890.1	1718.8	2589.5	2775.4	2757.7	2501.7	1595.7
60°	156.8	158.6	171.8	214.5	402.3	1090.0	2227.9	2506.1	2683.2	2526.4	1617.0
62.5°	119.8	120.4	119.7	124.8	169.1	483.7	1684.1	2060.4	2383.4	2507.9	1593.6
65°	103.8	104.7	99.8	98.5	108.4	172.6	1000.4	1468.5	1872.7	2258.9	1433.1
67.5°	93.2	93.6	87.6	82.5	84.3	93.3	394.6	804.0	1239.7	1655.8	1038.8
70°	85.8	85.3	79.0	70.8	68.5	63.8	125.5	294.7	592.4	839.6	483.1
72.5°	75.8	76.0	72.9	62.4	57.0	44.6	58.2	86.0	176.7	228.8	113.1
75°	67.4	66.5	62.5	55.9	46.9	29.4	28.8	38.3	54.4	54.1	24.4
77.5°	48.7	47.8	49.0	45.9	36.0	19.0	14.5	18.4	22.2	21.4	6.8
80°	35.7	35.2	31.6	38.2	31.8	12.9	9.0	9.8	11.4	9.6	2.1
82.5°	24.4	24.3	22.3	21.1	18.1	7.9	5.6	6.2	7.4	5.5	1.1
85°	3.9	4.4	16.2	12.8	10.7	3.6	3.9	4.2	4.9	3.0	0.4
87.5°	0.0	0.0	7.5	6.6	2.1	1.3	2.2	2.4	2.4	1.5	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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	841.4	823.8	791.3	757.8	726.6	689.5	664.0	645.0	622.7	616.9	629.8
5°	847.2	814.0	744.1	668.0	596.5	517.2	456.6	408.5	365.3	350.3	363.8
7.5°	856.4	806.9	693.0	567.5	443.3	319.4	234.7	179.1	143.5	132.9	138.7
10°	865.4	796.7	633.7	448.9	278.7	155.5	101.1	80.8	73.3	71.8	72.6
12.5°	873.1	783.1	561.5	319.2	148.9	83.4	66.3	62.9	61.9	61.9	62.3
15°	877.6	762.3	475.9	202.9	85.8	62.9	57.9	56.8	56.8	57.0	57.3
17.5°	877.0	736.0	382.1	122.9	64.1	55.8	52.7	51.8	51.7	52.0	52.2
20°	870.5	701.5	288.1	80.9	55.9	50.8	47.8	46.3	46.1	46.4	46.7
22.5°	858.3	658.9	206.2	62.4	50.5	46.1	42.4	41.0	41.0	41.3	41.6
25°	843.4	607.0	140.9	52.9	45.5	41.0	37.4	36.2	36.6	37.4	37.5
27.5°	824.7	548.4	95.8	45.4	39.5	35.8	33.1	32.2	33.1	34.5	34.9
30°	808.7	487.5	68.4	39.2	33.5	30.9	29.4	29.4	30.6	32.9	33.3
32.5°	796.3	428.4	52.7	34.7	29.1	26.9	26.1	26.9	28.8	31.1	31.6
35°	794.8	379.8	44.6	30.9	26.1	23.7	23.4	25.0	26.9	28.7	28.9
37.5°	806.9	334.8	40.2	27.9	23.1	21.1	20.8	22.6	24.7	26.7	27.3
40°	829.9	299.4	37.1	25.2	20.9	18.7	18.0	19.4	22.0	24.8	25.5
42.5°	859.9	270.3	33.5	22.3	18.7	15.5	14.6	16.2	19.0	22.0	22.8
45°	888.3	245.1	29.7	19.1	15.6	11.9	11.6	13.7	15.1	18.1	18.9
47.5°	904.0	223.0	26.4	15.6	12.1	9.6	9.6	10.2	11.6	15.1	15.8
50°	898.8	205.3	22.8	11.6	8.4	7.4	7.4	7.1	9.3	12.1	12.7
52.5°	888.2	195.0	19.8	9.0	5.7	5.3	4.8	5.3	6.5	7.7	7.9
55°	886.5	193.3	16.4	7.1	4.0	3.6	2.6	2.6	2.6	2.4	2.1
57.5°	898.8	196.1	13.8	5.7	3.0	2.2	1.3	0.0	0.0	0.0	0.0
60°	911.5	199.2	11.9	4.0	2.1	1.3	0.2	0.0	0.0	0.0	0.0
62.5°	890.4	192.4	10.1	2.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0
65°	782.2	163.9	7.9	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	556.4	109.7	5.3	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	254.0	45.9	3.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	54.3	14.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.0	10.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.6	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.4	1.7	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)