

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: P191719

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191719
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-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 4122 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - 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

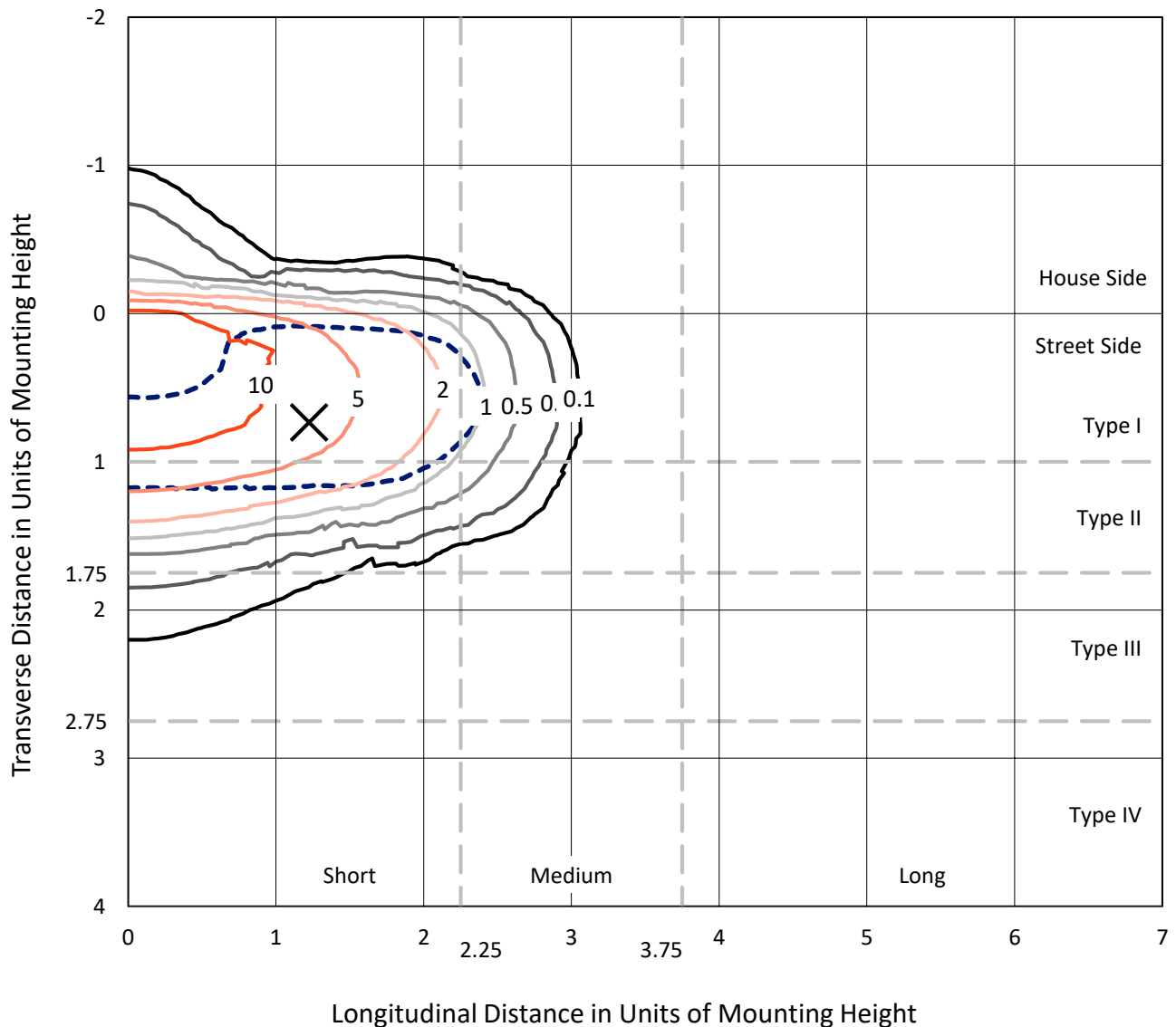


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

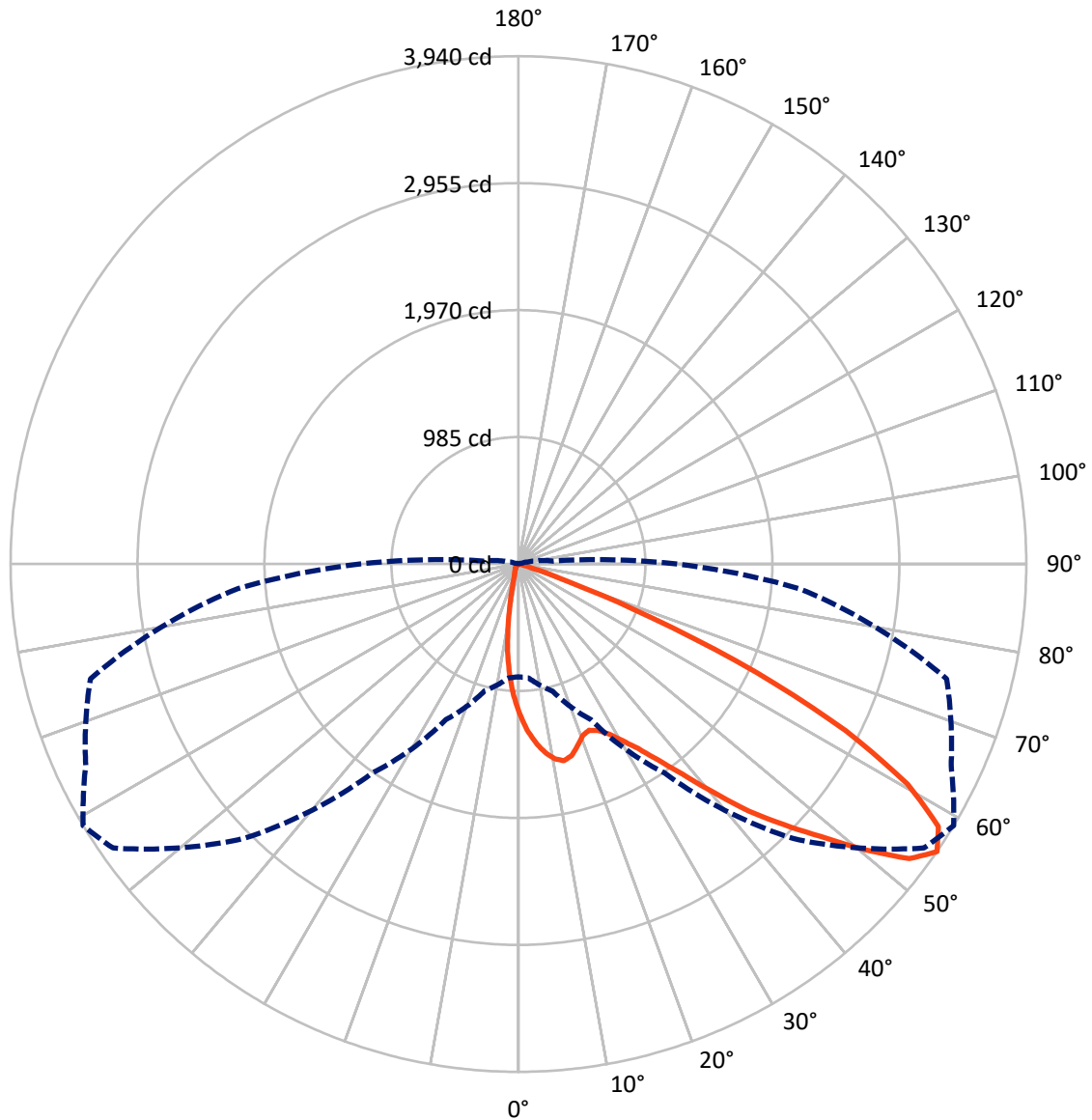


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - Full Cutoff

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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	230.2	0.0	230.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	3891.8	0.0	3891.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	4122.0	0.0	4122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	2.4
10°-20°	232.7	5.6
20°-30°	396.0	9.6
30°-40°	681.0	16.5
40°-50°	1051.3	25.5
50°-60°	1056.9	25.6
60°-70°	542.0	13.1
70°-80°	58.7	1.4
80°-90°	6.1	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°	4122.0	100.0
0°-180°	4122.0	100.0

Coefficient of Utilization



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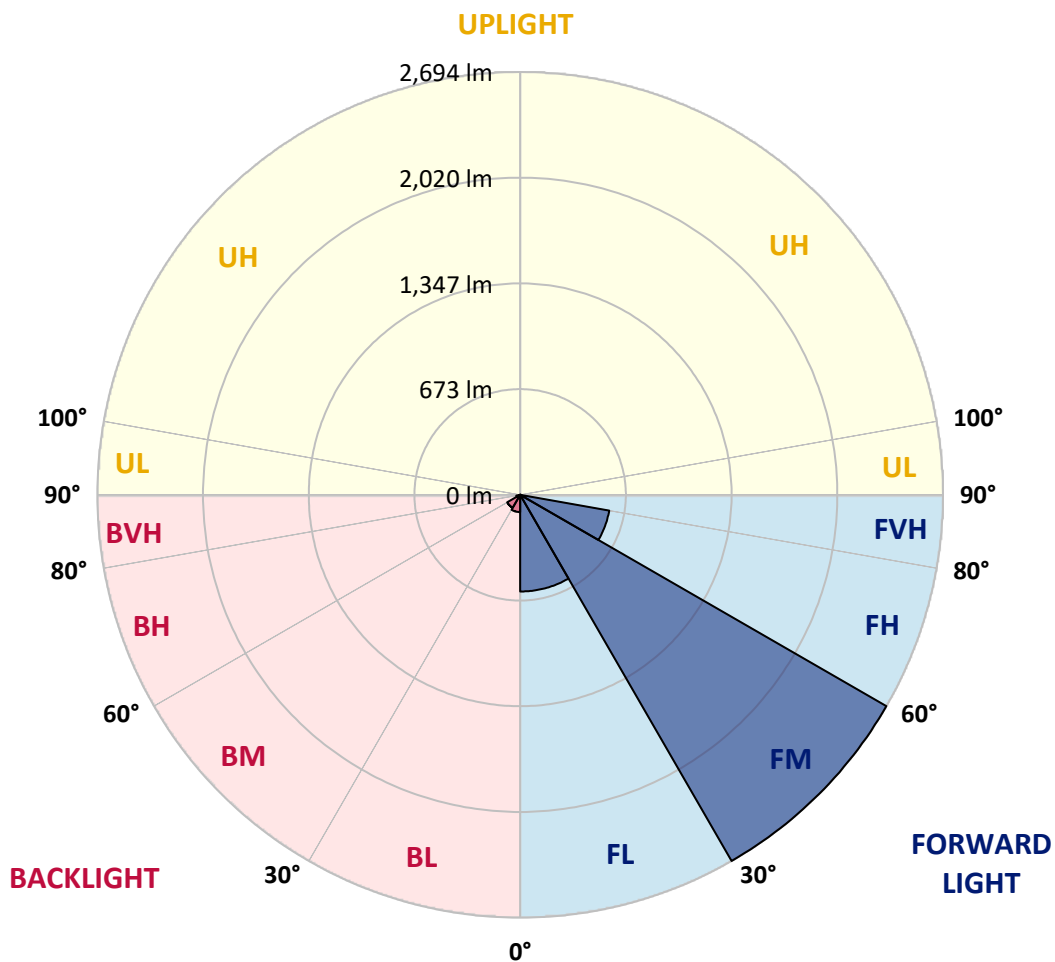
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	616.0	14.9			
FM	(30°-60°)	2693.7	65.3			
FH	(60°-80°)	576.1	14.0			G0/660
FVH	(80°-90°)	6.0	0.1			G0/10
BL	(0°-30°)	109.9	2.7	B0/110		
BM	(30°-60°)	95.6	2.3	B0/220		
BH	(60°-80°)	24.7	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: 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°	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3
2.5°	1372.9	1358.3	1354.0	1351.0	1337.7	1320.9	1298.0	1287.3	1265.4	1230.1	1186.8
5°	1498.7	1496.0	1486.3	1480.9	1466.6	1442.7	1406.3	1388.7	1354.0	1294.6	1217.0
7.5°	1443.7	1460.5	1473.9	1496.3	1524.5	1523.5	1492.9	1474.6	1435.7	1357.4	1250.6
10°	1231.4	1245.0	1266.9	1317.7	1421.3	1512.8	1548.8	1535.7	1504.5	1415.0	1282.9
12.5°	1189.8	1188.3	1192.2	1207.0	1261.3	1391.7	1539.3	1565.8	1559.5	1467.8	1313.6
15°	1211.9	1210.2	1209.7	1214.8	1228.0	1282.9	1468.0	1544.2	1593.1	1516.7	1339.6
17.5°	1273.9	1266.6	1262.7	1258.6	1254.7	1268.3	1382.4	1483.6	1598.2	1559.5	1361.3
20°	1380.2	1368.1	1353.7	1330.4	1308.5	1301.7	1346.4	1421.3	1579.9	1592.1	1375.4
22.5°	1513.8	1498.2	1473.4	1430.8	1386.3	1360.5	1364.2	1401.6	1552.7	1627.6	1381.9
25°	1663.9	1643.9	1610.8	1551.7	1486.3	1440.6	1416.7	1429.9	1540.3	1669.2	1389.5
27.5°	1824.7	1802.5	1759.2	1678.7	1604.5	1542.7	1494.1	1492.4	1561.5	1723.7	1401.6
30°	1984.0	1980.6	1924.1	1839.0	1740.7	1665.6	1595.5	1586.5	1620.6	1799.1	1425.7
32.5°	2196.6	2171.1	2102.0	2014.4	1901.0	1810.8	1727.8	1706.9	1711.3	1886.9	1462.9
35°	2464.7	2436.7	2339.4	2218.5	2091.8	1985.2	1893.5	1865.0	1854.3	2030.7	1525.7
37.5°	2637.9	2637.4	2576.3	2453.2	2317.3	2199.8	2100.0	2066.7	2045.0	2204.4	1623.0
40°	2642.5	2653.9	2661.9	2660.7	2563.9	2455.7	2367.1	2326.0	2275.7	2436.4	1748.8
42.5°	2500.7	2530.1	2600.9	2721.1	2778.5	2735.4	2660.7	2620.3	2545.4	2684.8	1902.0
45°	2309.0	2329.4	2453.2	2674.6	2894.7	3012.7	2955.8	2883.5	2784.8	2943.9	2039.5
47.5°	2223.1	2226.8	2306.8	2549.8	2903.5	3239.9	3274.5	3157.0	3002.3	3152.6	2147.0
50°	1966.5	1973.0	2083.5	2333.5	2800.8	3347.2	3594.6	3483.2	3239.4	3313.4	2186.1
52.5°	1482.2	1491.4	1631.5	1978.2	2518.7	3301.5	3823.7	3796.7	3499.2	3392.0	2188.3
55°	874.5	886.7	1020.5	1331.6	1981.1	3010.5	3840.8	3940.0	3704.3	3438.4	2184.9
57.5°	408.4	416.9	493.6	686.0	1232.1	2379.3	3584.4	3841.7	3817.4	3463.0	2209.0
60°	217.0	219.4	237.9	297.0	556.8	1508.7	3084.0	3469.1	3714.3	3497.0	2238.4
62.5°	165.9	166.6	165.7	172.7	234.0	669.7	2331.1	2851.9	3299.0	3471.5	2205.8
65°	143.8	145.0	138.2	136.5	150.1	238.9	1384.9	2032.9	2592.4	3126.8	1983.7
67.5°	128.9	129.4	121.1	114.1	116.5	129.2	546.4	1112.9	1715.9	2292.0	1437.9
70°	118.7	118.2	109.2	98.0	94.9	88.3	173.7	407.9	820.0	1162.3	668.7
72.5°	105.1	105.3	101.0	86.4	78.8	61.8	80.5	119.0	244.7	316.7	156.7
75°	93.2	92.0	86.6	77.4	64.9	40.6	39.9	53.0	75.4	74.9	33.8
77.5°	67.4	66.2	67.9	63.5	49.9	26.3	19.9	25.5	30.7	29.7	9.5
80°	49.4	48.7	43.8	52.8	44.0	18.0	12.4	13.6	15.8	13.4	2.9
82.5°	33.8	33.6	30.9	29.2	25.1	10.9	7.8	8.5	10.2	7.5	1.5
85°	5.4	6.1	22.4	17.8	14.8	4.9	5.4	5.8	6.8	4.1	0.5
87.5°	0.0	0.0	10.5	9.2	2.9	1.9	3.2	3.4	3.4	2.2	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°	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3	1160.3
2.5°	1164.7	1140.4	1095.4	1048.9	1005.9	954.5	919.3	892.7	862.1	853.8	871.8
5°	1172.7	1126.8	1029.9	924.6	825.6	715.9	632.0	565.6	505.5	485.1	503.5
7.5°	1185.4	1117.0	959.2	785.7	613.5	442.2	325.0	247.9	198.7	184.1	191.9
10°	1198.0	1102.9	877.2	621.3	385.8	215.3	140.1	111.9	101.4	99.2	100.5
12.5°	1208.5	1083.9	777.2	441.8	206.3	115.3	91.7	87.1	85.6	85.6	86.1
15°	1214.8	1055.2	658.7	281.0	118.7	87.1	80.0	78.6	78.6	78.8	79.3
17.5°	1214.1	1018.8	529.1	170.0	88.8	77.1	73.0	71.8	71.5	72.0	72.2
20°	1205.1	971.1	398.9	112.1	77.4	70.3	66.2	64.0	63.7	64.2	64.7
22.5°	1188.1	912.2	285.3	86.4	69.8	63.7	58.6	56.7	56.7	57.2	57.7
25°	1167.4	840.2	195.1	73.2	63.0	56.7	51.8	50.1	50.6	51.8	52.1
27.5°	1141.6	759.2	132.6	62.8	54.7	49.6	46.0	44.8	46.0	47.7	48.2
30°	1119.5	674.8	94.6	54.2	46.5	42.8	40.6	40.6	42.3	45.5	46.2
32.5°	1102.4	593.1	73.0	47.9	40.4	37.2	36.0	37.2	39.9	43.1	43.8
35°	1100.2	525.7	61.8	42.8	36.0	32.8	32.4	34.5	37.2	39.7	40.1
37.5°	1117.0	463.4	55.7	38.7	32.1	29.2	28.7	31.4	34.1	37.0	37.7
40°	1148.9	414.5	51.3	34.8	28.9	25.8	24.8	26.8	30.4	34.3	35.3
42.5°	1190.2	374.1	46.5	30.9	25.8	21.4	20.2	22.4	26.3	30.4	31.6
45°	1229.7	339.3	41.1	26.5	21.6	16.5	16.1	19.0	20.9	25.1	26.0
47.5°	1251.3	308.7	36.5	21.6	16.8	13.4	13.4	14.1	16.1	20.9	21.9
50°	1244.0	284.1	31.6	16.1	11.7	10.2	10.2	10.0	12.9	16.8	17.5
52.5°	1229.4	270.0	27.2	12.4	8.0	7.3	6.6	7.3	9.0	10.7	10.9
55°	1227.2	267.6	22.9	10.0	5.6	4.9	3.6	3.6	3.6	3.4	2.9
57.5°	1244.3	271.5	19.2	8.0	4.1	3.2	1.9	0.0	0.0	0.0	0.0
60°	1261.8	275.6	16.5	5.6	2.9	1.7	0.2	0.0	0.0	0.0	0.0
62.5°	1232.6	266.4	13.9	3.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
65°	1082.7	226.7	10.9	2.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	770.1	151.8	7.3	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	351.5	63.5	4.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	75.2	19.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.3	14.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.9	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.9	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.4	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)