

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: P193699

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4109 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

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

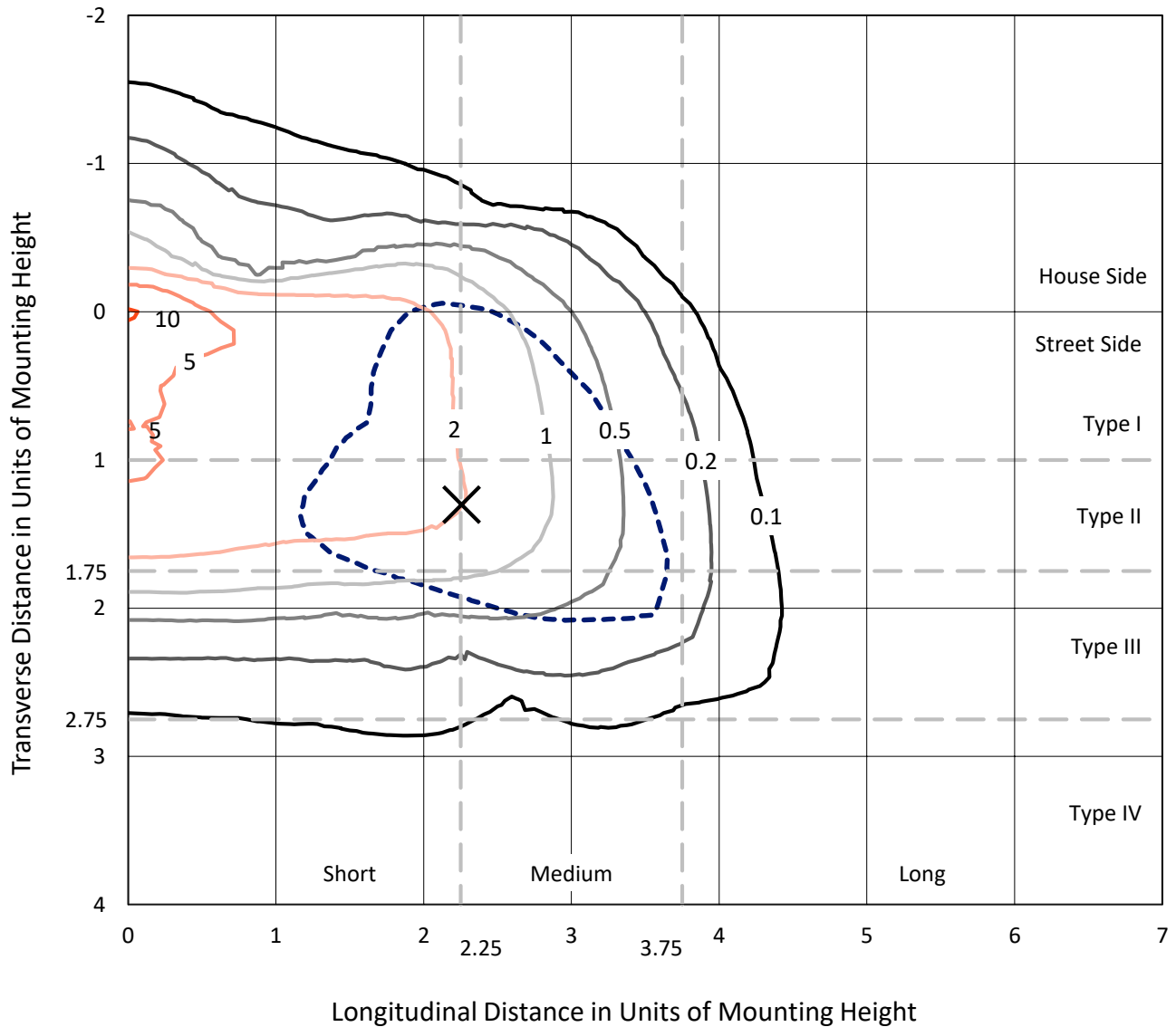


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Iso-Footcandle Lines of Horizontal Illumination

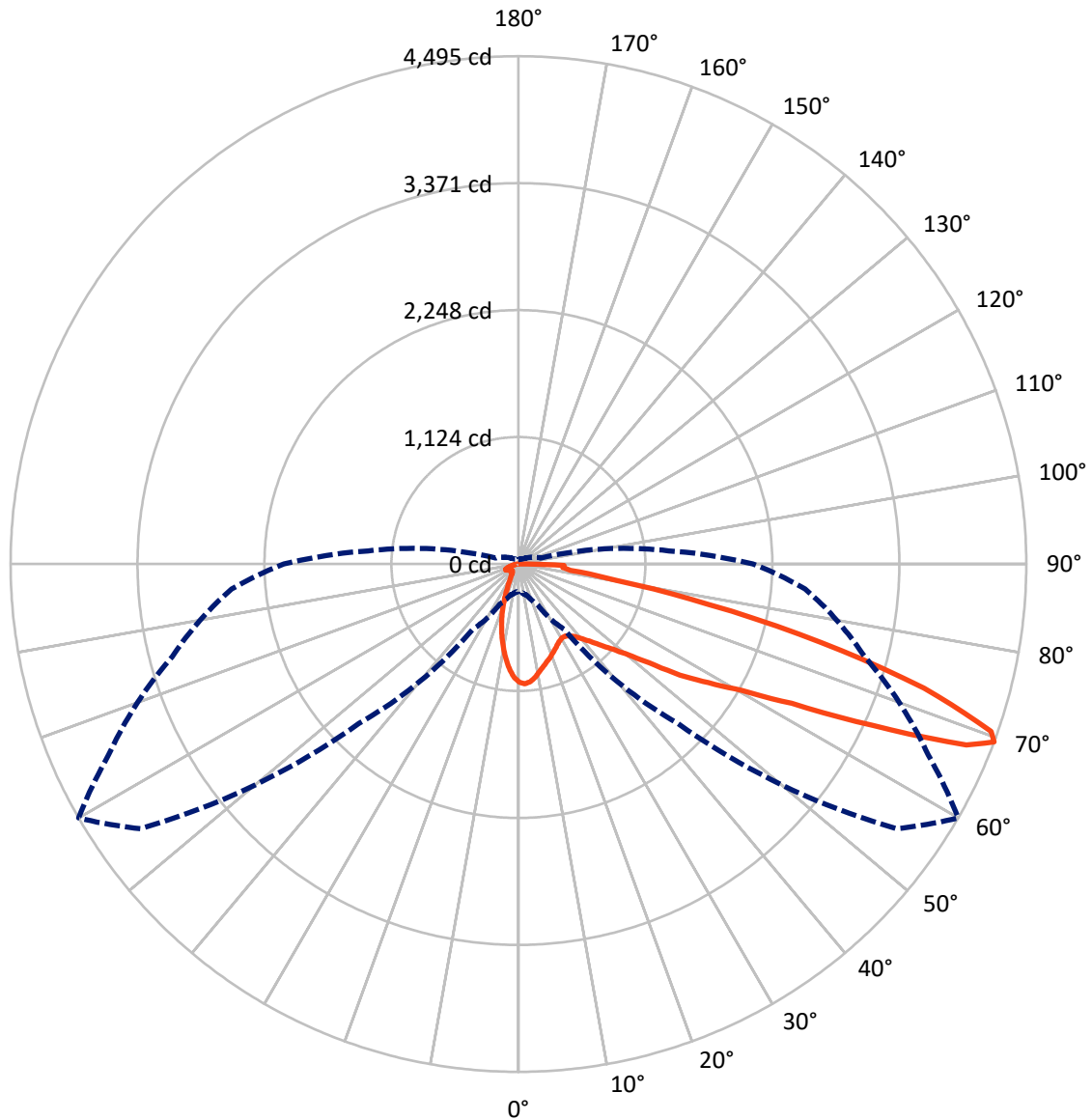
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.6	0.0	584.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3524.4	0.0	3524.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	4109.0	0.0	4109.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	2.2
10°-20°	188.6	4.6
20°-30°	240.3	5.8
30°-40°	330.4	8.0
40°-50°	536.1	13.0
50°-60°	859.8	20.9
60°-70°	1144.3	27.8
70°-80°	617.8	15.0
80°-90°	103.1	2.5
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°	4109.0	100.0
0°-180°	4109.0	100.0



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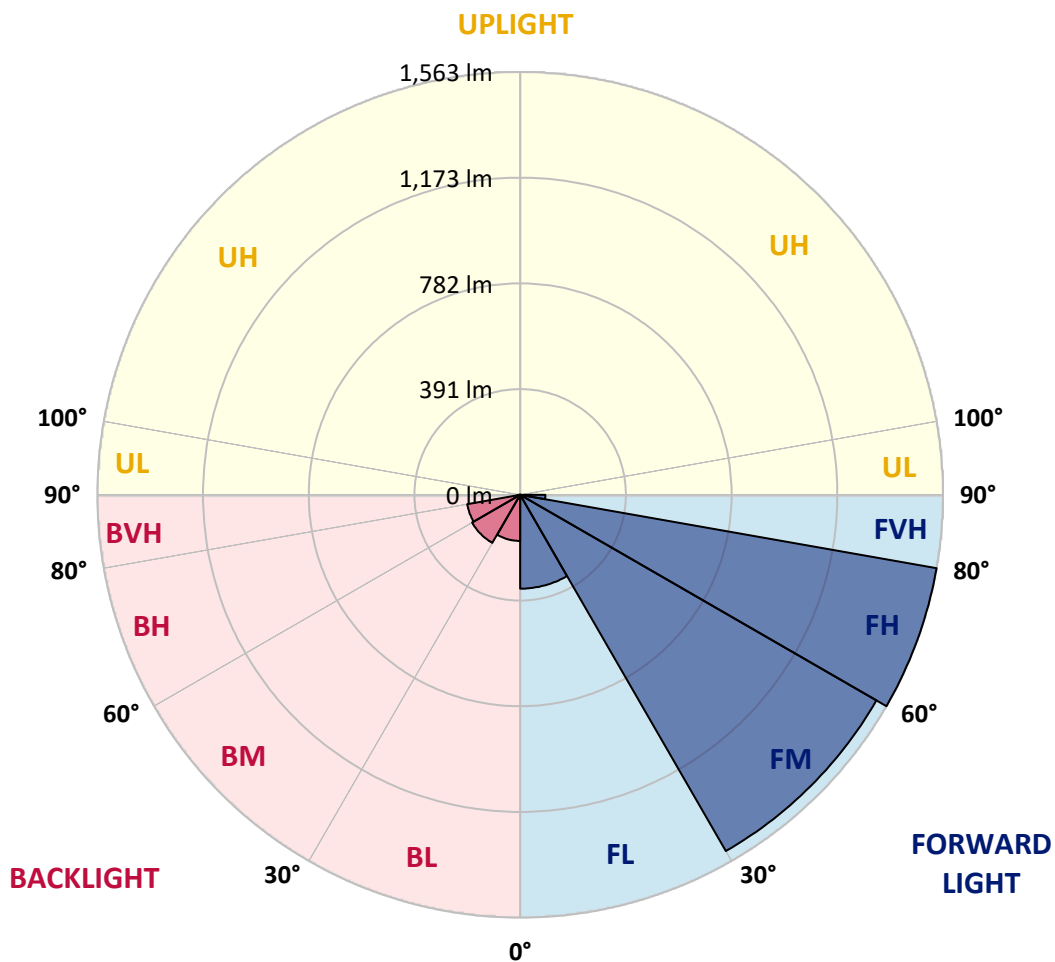
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.9	8.4			
FM	(30°-60°)	1520.9	37.0			
FH	(60°-80°)	1563.4	38.0			G1/1800
FVH	(80°-90°)	93.2	2.3			G1/100
BL	(0°-30°)	170.5	4.2	B1/500		
BM	(30°-60°)	205.4	5.0	B0/220		
BH	(60°-80°)	198.7	4.8	B1/500		G1/500
BVH	(80°-90°)	9.9	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0
2.5°	1068.5	1070.9	1069.9	1069.3	1071.1	1068.3	1062.5	1060.7	1058.0	1051.4	1040.3
5°	1028.4	1035.5	1035.1	1040.5	1049.4	1051.8	1049.2	1049.6	1044.5	1036.3	1017.9
7.5°	959.1	962.1	963.7	975.4	991.7	1004.8	1015.9	1019.4	1017.1	1010.1	986.3
10°	887.6	890.0	893.8	907.5	928.1	946.2	967.2	979.4	984.5	983.3	956.7
12.5°	826.3	828.7	833.7	849.1	873.8	896.0	926.6	941.6	953.9	961.3	932.7
15°	771.3	776.5	781.3	799.1	826.7	855.9	890.4	909.5	928.5	945.0	911.5
17.5°	728.5	733.6	736.4	752.7	782.1	817.8	858.3	880.7	904.5	931.5	890.4
20°	703.6	706.0	704.8	714.0	740.4	778.3	826.3	852.3	881.1	918.8	869.4
22.5°	696.7	696.9	692.5	691.5	708.6	740.6	792.2	823.7	859.1	910.5	851.3
25°	713.6	713.0	701.1	691.3	693.1	711.8	759.2	795.9	840.6	908.7	837.4
27.5°	751.1	752.9	735.2	716.9	698.9	698.3	734.2	772.9	825.5	916.8	831.5
30°	803.7	806.7	787.8	764.6	730.6	702.7	724.5	759.2	816.2	933.7	830.5
32.5°	861.2	864.4	850.1	825.7	781.3	729.6	731.2	760.4	815.8	957.3	837.2
35°	922.6	926.2	918.8	898.2	848.7	779.5	757.0	779.7	828.7	993.4	855.3
37.5°	991.1	996.6	998.6	979.0	926.2	845.2	799.3	816.2	857.9	1043.7	888.4
40°	1089.7	1097.5	1096.9	1068.7	1014.9	933.9	864.6	869.0	903.3	1110.8	941.4
42.5°	1278.7	1280.3	1230.8	1169.5	1112.5	1027.2	941.6	938.1	966.1	1195.7	1019.4
45°	1519.0	1512.5	1402.5	1284.0	1214.6	1134.4	1041.9	1024.4	1045.6	1299.3	1117.1
47.5°	1718.5	1703.4	1564.5	1400.9	1322.5	1250.9	1159.6	1129.0	1140.7	1416.8	1243.3
50°	1787.8	1776.5	1661.4	1498.2	1424.8	1393.0	1304.5	1261.2	1264.4	1557.0	1391.2
52.5°	1772.9	1771.3	1694.5	1562.3	1520.4	1542.3	1509.7	1451.2	1420.2	1712.6	1550.8
55°	1737.8	1741.2	1713.4	1636.9	1629.8	1686.4	1777.9	1734.6	1638.3	1869.6	1715.7
57.5°	1615.7	1624.4	1685.6	1730.8	1805.9	1890.0	1993.8	1981.5	1873.2	2039.3	1911.9
60°	1301.7	1321.9	1485.9	1712.6	1987.1	2250.3	2296.7	2268.1	2115.3	2249.9	2170.9
62.5°	912.1	933.1	1128.0	1482.7	1957.3	2657.2	2838.2	2714.9	2463.1	2560.1	2506.1
65°	488.3	498.4	647.3	1028.8	1652.4	2741.1	3629.6	3442.0	3013.7	2942.6	2793.0
67.5°	269.4	274.9	331.9	519.4	1058.3	2413.8	4133.8	4275.5	3701.8	3197.3	2740.8
69°	243.5	248.7	286.0	393.4	708.2	1995.8	4084.5	4495.2	4003.5	3172.1	2547.8
70°	238.2	243.0	276.5	362.6	573.2	1645.1	3919.6	4439.0	4075.4	3081.8	2379.5
72.5°	214.4	219.5	252.1	325.7	489.9	820.2	3104.8	3753.3	3700.1	2672.1	1804.9
75°	199.9	204.6	259.8	319.0	469.0	519.1	2046.8	2766.2	2719.9	1869.2	973.2
77.5°	85.5	85.2	120.5	269.9	476.0	502.6	1099.8	1728.1	1576.6	798.9	279.5
80°	57.2	56.2	57.2	79.4	436.5	505.4	576.2	877.1	662.6	203.7	137.8
82.5°	49.2	48.4	50.2	48.4	153.4	576.8	489.9	466.5	315.0	115.7	68.3
85°	33.1	31.8	43.3	43.5	72.4	512.5	551.8	394.0	254.9	68.7	33.7
87.5°	15.9	15.5	25.2	30.8	42.5	208.2	619.1	403.7	257.0	35.1	16.1
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°	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0
2.5°	1036.9	1028.8	1020.8	1011.3	1001.4	990.3	984.7	979.2	977.8	976.2	970.6
5°	1008.3	996.8	977.0	955.1	932.1	909.7	892.6	881.9	873.8	869.6	862.2
7.5°	971.4	954.5	919.8	882.1	843.4	808.1	777.5	758.2	740.0	731.4	721.7
10°	936.3	911.1	857.1	801.5	745.9	692.5	642.3	606.8	575.2	557.6	545.1
12.5°	906.1	871.6	796.7	721.5	645.3	569.3	494.0	434.9	385.5	359.5	346.2
15°	876.7	835.0	739.4	643.9	546.0	442.6	343.8	276.7	235.8	219.5	214.0
17.5°	850.1	796.7	681.8	565.7	443.6	318.6	231.0	194.1	178.4	173.1	171.3
20°	821.4	758.0	622.1	483.9	336.8	222.7	180.4	164.2	157.8	156.2	155.4
22.5°	793.6	719.9	564.9	396.4	242.0	171.9	155.0	148.3	147.3	148.7	148.7
25°	769.9	685.8	503.2	304.9	177.6	144.7	138.7	137.2	140.9	146.1	147.1
27.5°	752.3	657.8	437.5	225.1	141.5	125.8	125.6	128.2	137.6	147.5	149.5
30°	740.2	631.2	367.2	162.4	118.7	110.8	113.9	119.5	133.2	147.3	151.1
32.5°	734.0	611.5	294.0	125.6	101.6	97.3	102.6	109.4	122.9	136.0	140.9
35°	738.8	597.1	224.9	104.8	89.7	86.3	91.9	98.5	106.4	111.9	115.7
37.5°	756.6	591.3	169.7	93.9	81.6	78.4	82.8	86.5	89.7	91.3	93.1
40°	795.2	597.5	136.0	88.3	77.0	73.0	74.8	76.2	78.2	79.8	80.6
42.5°	851.9	615.9	121.9	86.1	74.6	68.9	68.5	69.1	71.7	74.6	75.2
45°	931.3	648.5	120.9	87.5	73.4	65.5	63.7	64.5	68.5	73.0	73.8
47.5°	1032.7	698.1	128.8	91.7	74.4	63.7	60.7	61.7	66.7	72.8	73.8
50°	1155.6	767.4	142.1	97.9	78.8	64.1	59.7	60.3	65.5	72.3	73.2
52.5°	1300.7	865.6	156.6	103.8	83.4	66.7	60.5	59.2	63.9	69.9	71.1
55°	1462.1	991.7	171.5	109.2	85.7	69.9	62.1	57.6	60.9	65.9	66.9
57.5°	1660.2	1167.9	197.3	114.3	87.3	72.1	63.7	56.0	57.2	60.7	61.5
60°	1928.3	1417.2	242.8	122.9	90.9	72.8	63.5	54.6	53.4	55.4	55.8
62.5°	2249.7	1688.0	280.7	133.6	96.9	73.4	62.3	53.6	50.2	50.2	50.6
65°	2440.4	1760.4	259.6	142.5	101.8	72.8	60.9	52.6	47.8	45.7	45.9
67.5°	2278.7	1548.2	222.5	144.3	101.6	70.1	58.8	50.8	45.5	42.1	41.9
69°	2076.0	1335.8	205.8	139.5	96.9	66.5	56.0	48.8	43.7	40.1	39.9
70°	1912.7	1206.2	194.9	134.4	91.7	63.9	53.8	47.0	42.3	38.9	38.5
72.5°	1390.6	790.4	166.5	115.5	75.6	53.6	46.4	41.3	37.7	35.7	35.3
75°	694.9	376.9	135.2	93.7	58.0	42.9	38.1	34.5	32.8	32.4	32.2
77.5°	228.3	172.7	96.7	69.9	43.1	33.5	30.8	28.2	27.8	29.0	28.6
80°	125.4	100.4	61.3	46.2	29.4	24.6	24.2	22.8	23.4	25.4	25.0
82.5°	63.9	52.2	37.9	27.8	19.8	17.7	19.3	18.5	19.3	21.0	20.8
85°	31.6	28.6	24.0	16.9	13.1	11.3	13.7	14.3	14.7	16.1	16.1
87.5°	18.3	16.9	12.7	7.9	6.6	6.0	7.9	7.7	9.1	9.9	9.7
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)