

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: P192049

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5922 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

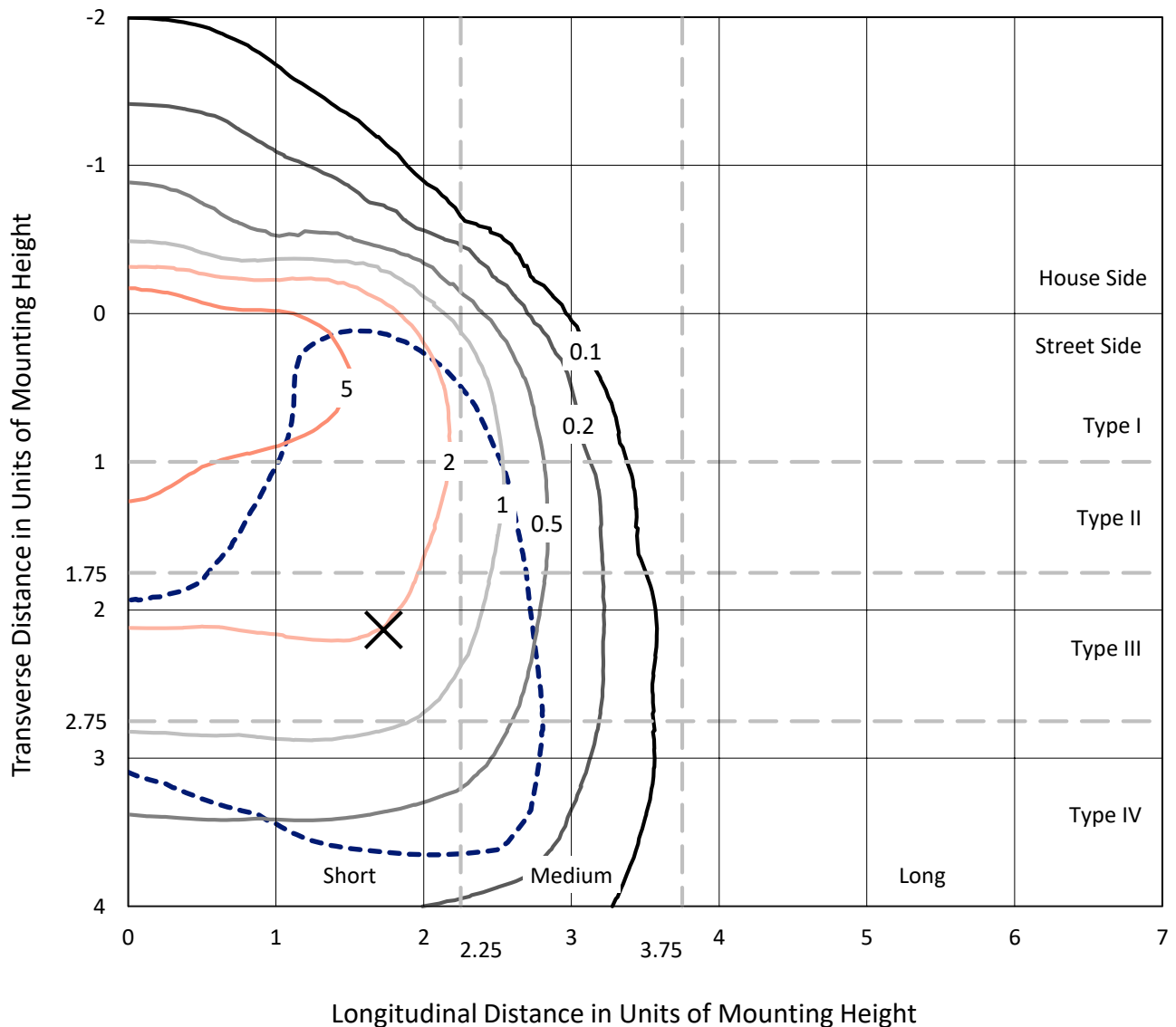
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192049
 CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050

Iso-Footcandle Lines of Horizontal Illumination

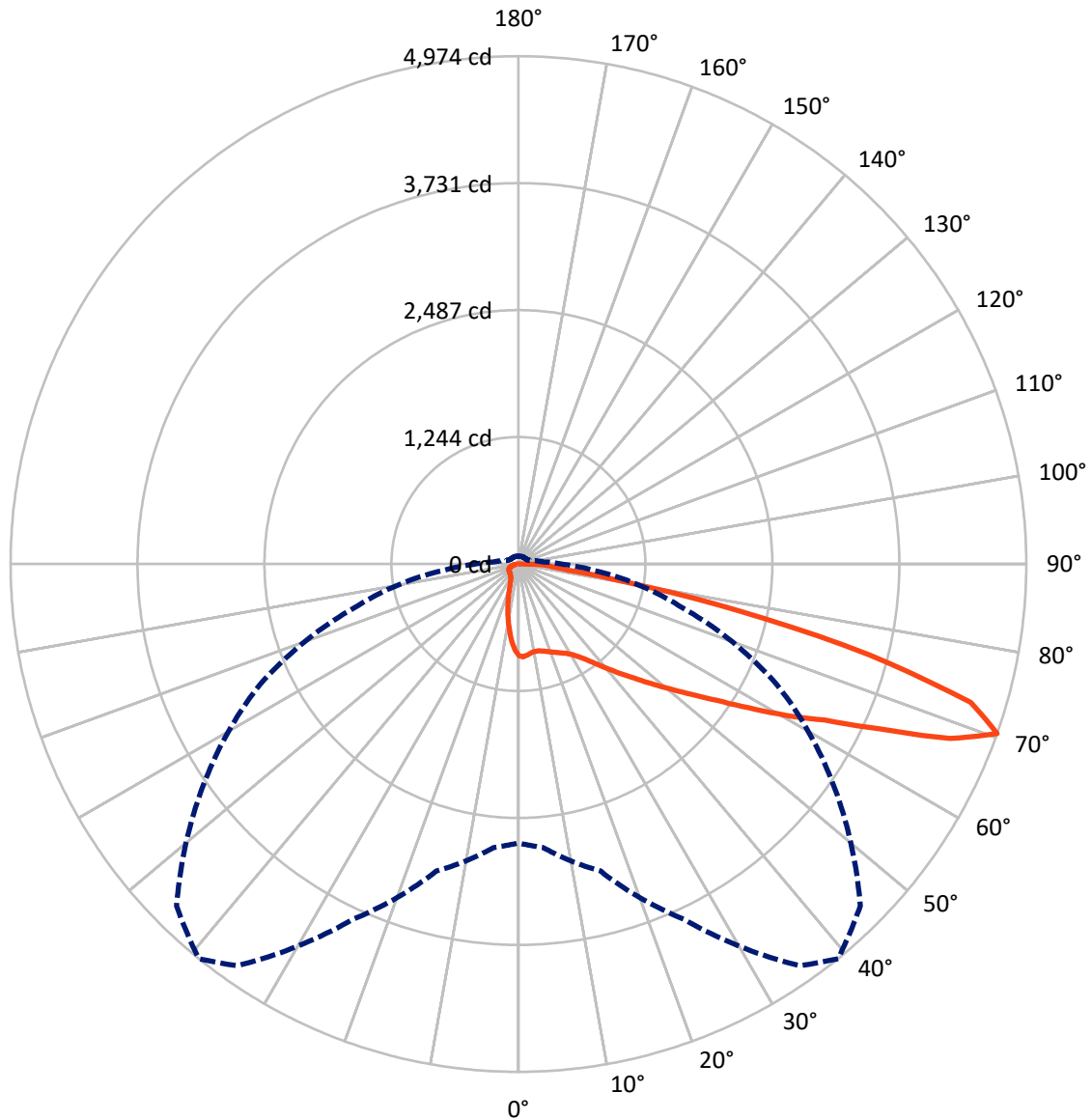
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192049
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	673.5	0.0	673.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	5248.5	0.0	5248.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	5922.0	0.0	5922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.3
10°-20°	192.9	3.3
20°-30°	300.3	5.1
30°-40°	467.8	7.9
40°-50°	785.3	13.3
50°-60°	1247.6	21.1
60°-70°	1664.1	28.1
70°-80°	1004.9	17.0
80°-90°	181.9	3.1
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°	5922.0	100.0
0°-180°	5922.0	100.0



REPORT NUMBER: P192049

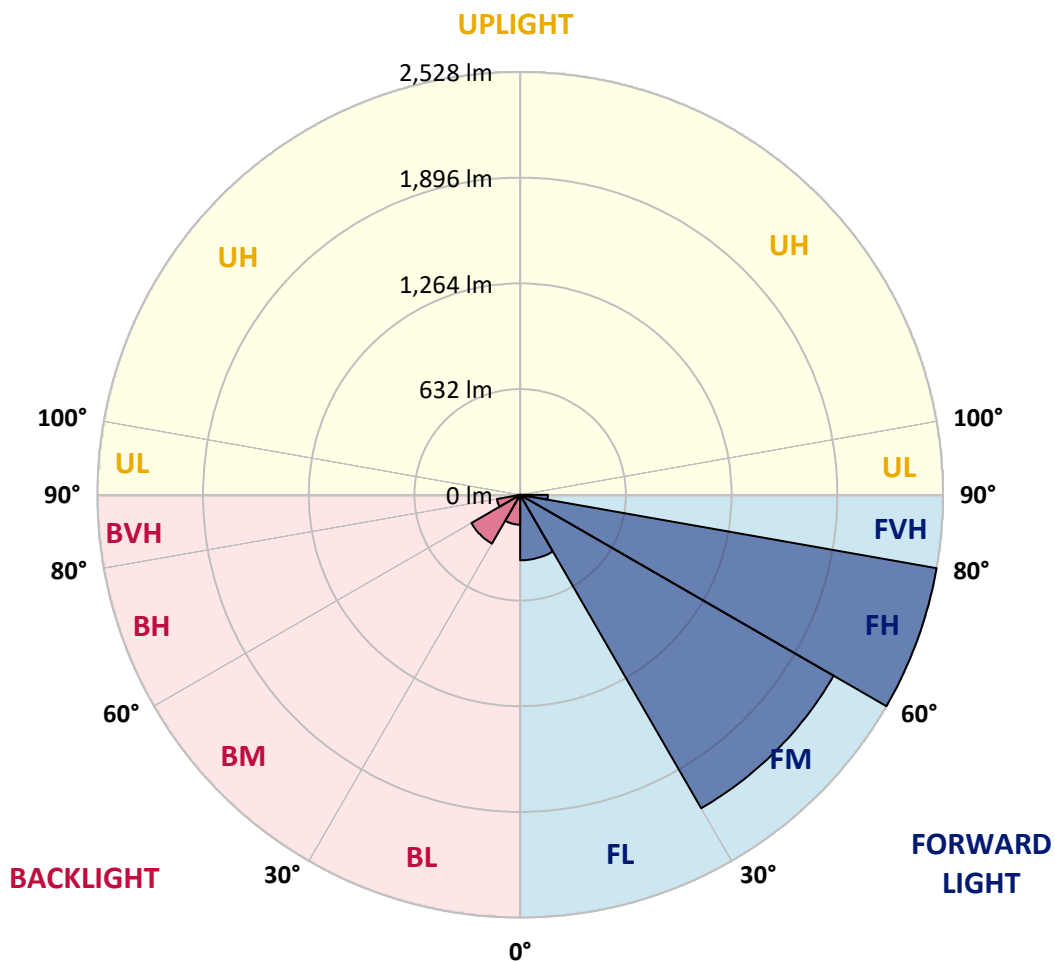
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.6	6.6			
FM	(30°-60°)	2163.7	36.5			
FH	(60°-80°)	2527.7	42.7			G2/5000
FVH	(80°-90°)	165.5	2.8			G2/225
BL	(0°-30°)	178.7	3.0	B1/500		
BM	(30°-60°)	337.1	5.7	B1/1000		
BH	(60°-80°)	141.4	2.4	B1/500		G1/500
BVH	(80°-90°)	16.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P192049

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1
2.5°	916.5	916.2	913.8	912.0	910.5	909.9	911.1	906.6	902.7	897.8	892.7
5°	909.6	909.3	905.4	901.8	898.1	896.9	896.6	888.5	883.7	876.5	866.8
7.5°	902.1	900.6	895.4	889.4	883.1	880.1	877.1	866.5	861.1	853.9	842.7
10°	894.2	892.4	887.6	881.6	875.6	871.1	865.9	855.7	850.0	844.6	831.6
12.5°	886.1	884.6	883.4	880.7	876.5	872.6	868.6	859.9	853.9	847.6	832.5
15°	884.9	884.3	887.0	888.8	886.4	884.0	879.8	872.3	865.9	859.6	840.0
17.5°	894.5	894.2	901.2	906.0	904.8	900.6	894.8	886.4	881.3	875.9	851.5
20°	915.6	917.1	925.5	931.9	925.8	919.8	910.5	898.8	896.0	893.6	863.2
22.5°	955.4	956.9	962.9	965.3	949.6	940.9	928.0	912.9	911.1	912.9	877.4
25°	1017.4	1015.9	1015.0	1005.9	977.3	963.8	947.2	931.6	932.5	940.6	897.2
27.5°	1099.6	1091.4	1078.8	1051.7	1006.2	991.2	971.0	956.6	962.3	977.9	927.1
30°	1184.8	1175.8	1146.5	1102.3	1044.2	1027.6	1005.0	988.8	1003.8	1028.5	966.8
32.5°	1263.7	1262.5	1219.7	1162.8	1096.6	1082.1	1059.5	1041.2	1065.6	1103.2	1026.4
35°	1349.8	1352.5	1301.3	1233.0	1167.3	1152.3	1136.0	1122.2	1154.7	1206.5	1112.8
37.5°	1441.9	1447.3	1386.8	1309.7	1248.0	1241.7	1232.1	1226.0	1276.3	1348.0	1233.6
40°	1565.1	1559.6	1475.6	1396.5	1347.1	1346.8	1343.8	1351.0	1434.7	1532.8	1388.6
42.5°	1696.9	1681.0	1569.9	1489.5	1455.8	1466.0	1472.0	1501.5	1625.3	1757.5	1577.7
45°	1839.1	1803.2	1667.7	1587.9	1576.5	1598.2	1618.7	1682.8	1849.6	2013.1	1784.9
47.5°	1952.6	1917.9	1768.9	1691.2	1716.2	1749.0	1788.5	1889.9	2100.7	2277.1	1989.3
50°	2042.0	2019.4	1871.0	1811.7	1870.1	1920.6	1985.1	2124.5	2362.0	2534.3	2178.7
52.5°	2128.7	2111.8	1973.9	1935.1	2050.7	2120.6	2208.2	2376.2	2630.0	2787.2	2338.0
55°	2207.0	2194.9	2084.7	2089.0	2263.3	2354.2	2464.4	2662.8	2922.1	3012.7	2472.8
57.5°	2295.2	2279.8	2211.2	2282.0	2536.4	2654.4	2797.7	2985.0	3196.1	3213.2	2575.5
60°	2384.0	2370.8	2351.5	2504.8	2883.2	3007.3	3143.1	3297.2	3474.0	3368.9	2569.5
62.5°	2461.1	2462.6	2496.6	2738.7	3222.9	3366.5	3532.1	3684.4	3725.4	3396.0	2379.5
65°	2591.8	2615.6	2717.0	3069.9	3701.0	3893.1	4096.3	4071.9	3794.9	3142.8	1972.1
67.5°	2747.1	2789.0	2994.6	3511.3	4305.3	4560.3	4638.9	4159.5	3516.4	2554.7	1405.8
70°	2731.5	2789.0	3114.5	3840.4	4803.3	4974.3	4735.8	3764.5	2792.3	1668.9	746.7
72.5°	2425.6	2507.8	2870.3	3689.5	4646.4	4631.3	4111.4	2806.4	1659.0	670.2	291.8
75°	1848.7	1931.8	2243.7	2914.8	3672.4	3545.9	2917.3	1550.3	629.6	266.2	184.0
77.5°	1063.4	1127.9	1368.8	1787.6	2329.8	2200.1	1623.8	689.5	306.5	185.5	143.6
80°	593.7	629.6	775.9	906.9	1141.7	1046.6	726.5	428.4	228.8	134.6	110.8
82.5°	469.4	501.3	627.5	572.1	521.5	481.1	417.3	381.5	182.8	84.9	66.2
85°	410.1	440.5	531.1	450.4	356.2	326.7	339.0	375.5	142.1	51.2	56.6
87.5°	380.0	420.6	473.3	347.2	277.3	245.7	312.8	411.6	45.8	31.9	22.9
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: P192049

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1	899.1
2.5°	888.2	883.4	875.6	868.6	857.8	852.1	845.8	841.2	837.6	834.6	839.4
5°	860.8	851.8	835.2	817.5	796.4	779.8	766.0	753.0	744.0	738.0	742.2
7.5°	834.9	820.2	794.3	762.1	725.9	695.2	669.9	647.6	632.3	622.4	626.3
10°	820.2	801.8	761.8	711.2	657.9	610.0	570.3	535.9	512.2	498.6	500.7
12.5°	816.6	792.8	737.4	667.8	595.0	528.4	472.4	424.8	391.4	374.0	374.6
15°	819.3	788.9	714.5	626.3	534.1	450.1	380.3	322.5	283.6	263.8	263.5
17.5°	823.8	785.8	690.4	581.4	472.4	374.9	296.9	240.3	205.9	190.0	188.8
20°	828.6	781.0	663.3	532.9	408.3	305.0	232.4	188.2	166.5	157.8	157.2
22.5°	835.5	776.8	635.3	481.7	345.3	248.4	191.2	161.4	149.9	145.4	144.8
25°	846.7	774.7	605.5	428.4	288.7	207.8	166.5	148.1	141.5	138.5	138.2
27.5°	865.3	777.7	577.5	376.7	242.7	180.4	152.7	141.5	136.7	134.0	133.7
30°	889.4	787.0	548.0	327.6	206.8	161.7	144.2	137.0	133.1	130.4	130.4
32.5°	929.5	802.7	517.0	285.1	181.3	148.7	137.9	133.1	129.8	127.7	127.4
35°	988.5	832.2	488.1	249.9	162.9	139.4	132.5	128.9	126.5	125.3	125.3
37.5°	1074.3	878.9	462.5	224.6	151.7	133.1	127.4	124.7	123.1	123.1	123.1
40°	1189.6	943.3	441.7	207.8	145.4	128.6	123.4	121.3	120.4	120.7	120.7
42.5°	1332.0	1027.0	427.8	196.0	142.4	125.9	120.7	118.9	118.0	117.7	118.0
45°	1494.3	1122.2	426.3	187.3	139.4	124.0	118.9	117.1	115.3	114.1	114.1
47.5°	1652.1	1218.8	438.7	184.3	136.1	121.9	117.4	115.6	112.9	110.2	110.2
50°	1791.5	1301.0	455.2	185.5	134.9	118.9	115.0	114.1	109.9	106.9	106.6
52.5°	1902.3	1364.2	468.8	189.1	136.1	116.8	112.0	112.3	107.8	104.5	104.2
55°	1991.1	1405.8	465.2	192.7	138.8	115.6	109.3	109.9	106.3	103.0	103.0
57.5°	2029.9	1390.4	425.1	189.7	140.9	115.9	107.2	109.6	106.6	103.6	103.6
60°	1946.5	1254.0	350.2	176.4	138.2	115.0	106.3	110.8	110.5	107.5	107.2
62.5°	1694.2	1009.9	271.6	156.9	128.9	110.5	103.9	110.5	113.8	112.9	112.6
65°	1305.8	719.3	207.5	135.8	116.2	103.0	97.6	103.6	108.1	109.3	109.0
67.5°	847.6	440.8	159.9	115.9	102.1	94.2	89.4	92.1	93.0	93.0	92.4
70°	416.7	237.3	127.4	97.6	87.6	84.9	82.2	80.7	79.2	78.0	78.0
72.5°	205.6	155.1	104.8	82.5	75.6	74.4	73.8	72.0	70.8	69.3	68.6
75°	152.0	126.2	89.1	69.6	65.0	63.8	65.0	63.5	63.2	62.0	61.4
77.5°	125.0	107.5	76.8	59.6	55.7	53.6	55.4	55.7	56.0	54.2	53.6
80°	101.5	90.9	64.1	49.4	45.8	44.3	45.5	47.9	48.5	45.8	44.6
82.5°	73.2	74.4	51.8	38.5	35.5	34.3	36.7	39.7	40.3	36.4	35.5
85°	61.4	62.0	39.7	27.4	24.4	22.6	26.5	29.5	31.6	27.7	26.8
87.5°	25.6	36.4	22.9	15.4	13.5	11.7	14.2	15.7	19.0	17.5	17.2
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)