

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: P269020

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5829 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

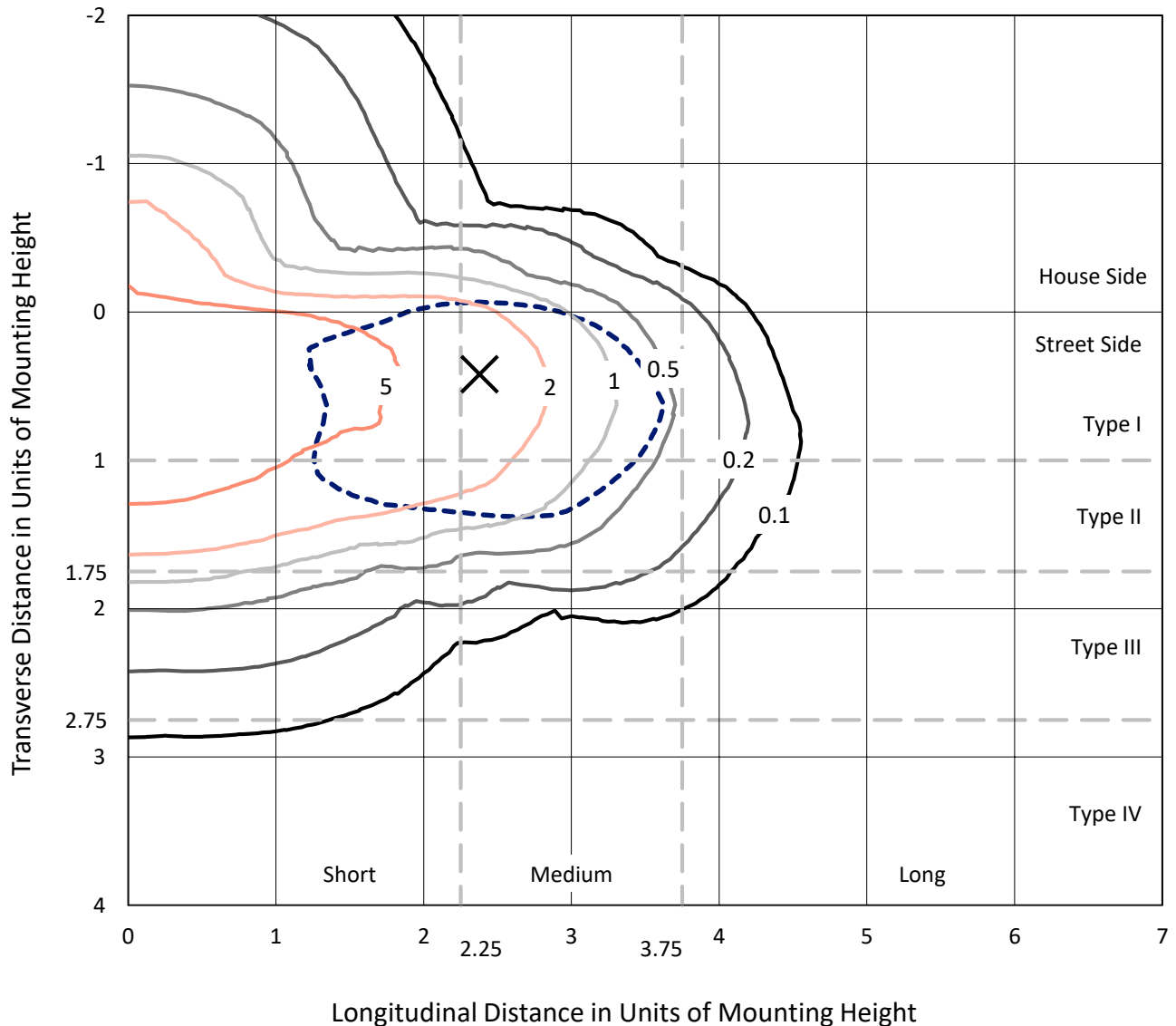


REPORT NUMBER: P269020

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

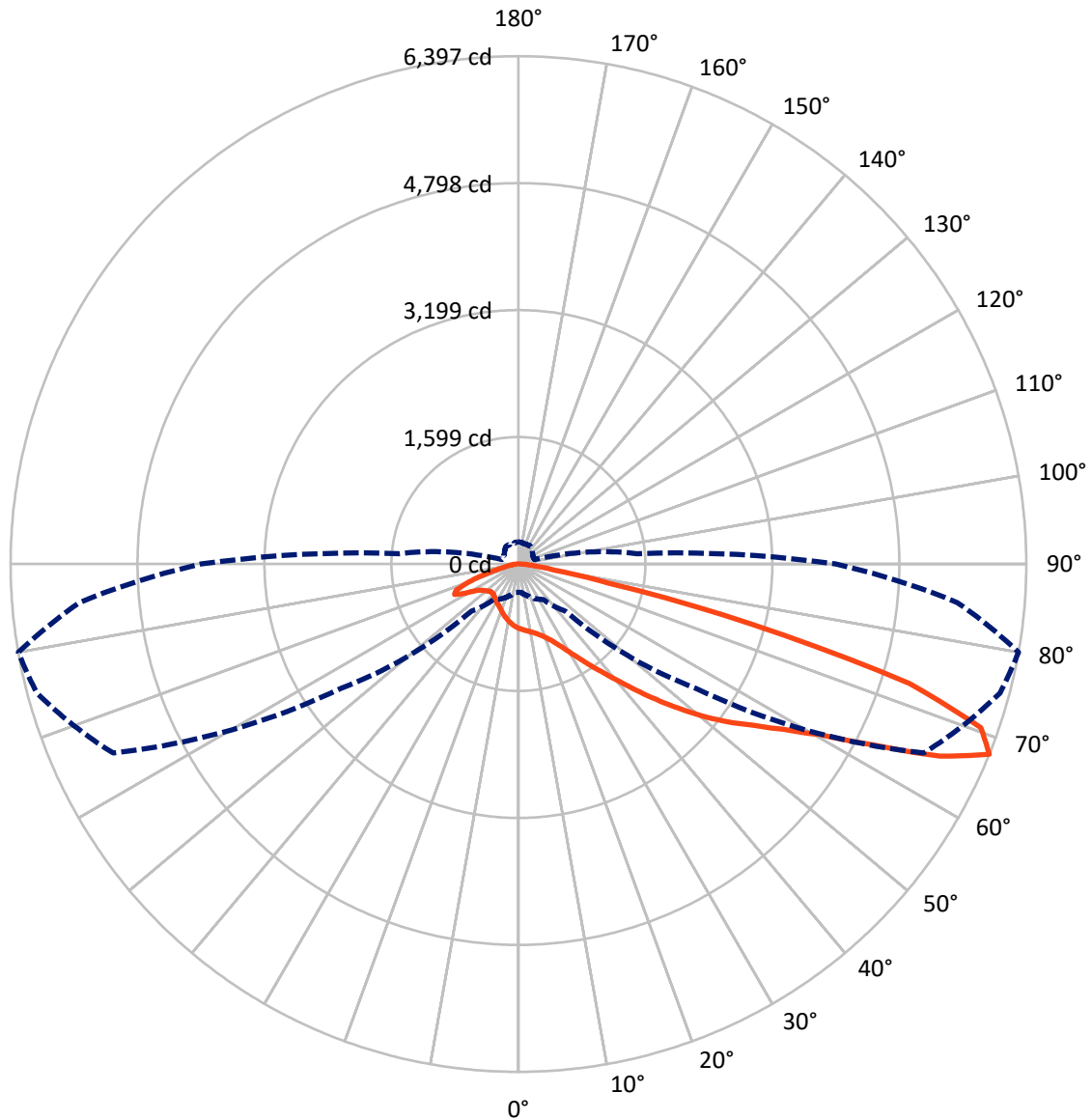
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269020
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269020

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.5	0.0	1073.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4755.5	0.0	4755.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	5829.0	0.0	5829.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	1.3
10°-20°	215.2	3.7
20°-30°	356.2	6.1
30°-40°	582.6	10.0
40°-50°	940.7	16.1
50°-60°	1358.2	23.3
60°-70°	1498.8	25.7
70°-80°	690.8	11.9
80°-90°	111.7	1.9
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°	5829.0	100.0
0°-180°	5829.0	100.0



REPORT NUMBER: P269020

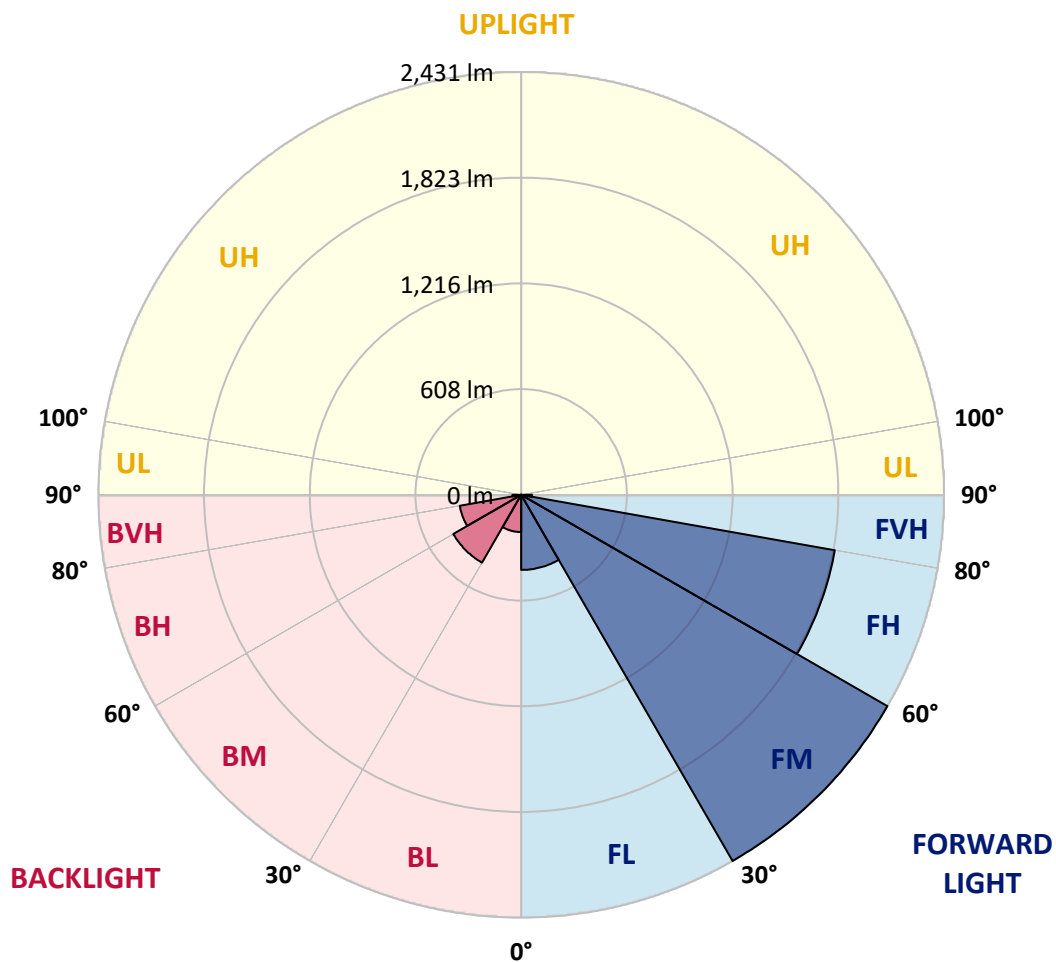
CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.9	7.4			
FM (30°-60°)	2431.1	41.7			
FH (60°-80°)	1831.0	31.4			G2/5000
FVH (80°-90°)	61.4	1.1			G1/100
BL (0°-30°)	214.2	3.7	B1/500		
BM (30°-60°)	450.4	7.7	B1/1000		
BH (60°-80°)	358.6	6.2	B1/500		G1/500
BVH (80°-90°)	50.3	0.9			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 II Medium





REPORT NUMBER: P269020

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	885.9	880.7	881.5	880.1	875.8	868.3	860.3	845.7	830.6	822.5	816.1
5°	959.8	958.5	956.4	951.8	941.0	925.4	906.2	880.3	852.6	837.9	823.8
7.5°	1015.3	1014.5	1011.9	1008.9	998.3	979.7	950.8	913.9	873.5	853.4	831.7
10°	1019.8	1021.4	1023.3	1031.1	1032.5	1022.5	992.8	948.4	895.3	869.5	841.7
12.5°	980.9	984.1	991.8	1011.5	1032.5	1044.9	1029.6	984.6	920.9	889.6	854.3
15°	929.1	931.0	940.3	967.7	1005.3	1043.4	1057.8	1024.4	953.9	915.5	873.2
17.5°	907.1	907.9	914.6	932.6	967.7	1022.2	1073.6	1067.8	994.3	947.5	896.5
20°	895.9	897.9	907.4	925.2	947.4	995.0	1075.8	1114.5	1042.6	987.7	925.8
22.5°	927.8	927.0	930.4	939.3	958.0	986.6	1074.2	1162.8	1103.9	1039.3	963.9
25°	1002.1	1005.3	999.3	989.2	995.2	1015.3	1083.3	1215.0	1180.8	1105.6	1013.8
27.5°	1108.0	1104.8	1095.9	1072.3	1060.1	1068.7	1113.7	1271.2	1276.4	1192.9	1079.9
30°	1213.6	1210.9	1202.4	1173.6	1148.5	1141.2	1172.8	1335.8	1390.3	1297.6	1160.8
32.5°	1323.3	1320.2	1312.3	1283.6	1253.1	1236.5	1256.9	1410.5	1524.7	1422.7	1256.1
35°	1458.4	1452.9	1436.0	1396.1	1366.2	1353.3	1362.8	1504.3	1679.7	1570.9	1371.7
37.5°	1585.5	1593.9	1576.5	1521.5	1482.7	1478.3	1488.9	1618.7	1846.6	1736.5	1504.7
40°	1713.2	1714.7	1699.1	1654.0	1614.2	1606.7	1633.4	1757.7	2043.7	1934.4	1666.1
42.5°	1845.2	1848.1	1821.9	1780.4	1751.1	1752.6	1783.0	1920.3	2269.8	2167.7	1852.0
45°	2001.7	2005.8	1977.2	1922.7	1896.1	1949.6	1937.0	2102.9	2517.9	2432.9	2065.7
47.5°	2165.2	2171.7	2150.0	2098.9	2065.7	2139.4	2091.2	2305.2	2784.7	2717.4	2300.0
50°	2254.3	2263.9	2285.1	2281.3	2274.1	2261.8	2263.0	2522.1	3059.9	3013.5	2541.0
52.5°	2206.4	2206.1	2283.8	2377.9	2478.2	2485.7	2472.6	2750.9	3317.0	3303.0	2768.0
55°	1987.2	2002.1	2119.6	2301.7	2576.1	2747.5	2786.5	3012.8	3569.5	3585.9	2998.5
57.5°	1622.2	1634.6	1792.9	2047.0	2444.1	2903.0	3233.0	3393.6	3851.9	3928.3	3305.3
60°	1100.2	1115.2	1283.0	1588.1	2088.7	2816.2	3658.0	4073.3	4190.1	4363.5	3735.7
62.5°	646.5	660.1	796.8	1001.8	1470.7	2413.7	3844.4	5040.0	4726.9	5020.4	4392.4
65°	445.1	454.3	520.8	623.6	845.1	1625.7	3613.3	5707.6	5553.1	5834.3	5153.7
67.5°	358.2	356.9	409.7	479.9	544.2	838.2	2732.3	5632.1	6279.7	6397.1	5548.8
70°	295.1	293.8	329.7	387.7	434.8	472.1	1488.2	4752.8	6131.7	6179.3	5184.8
72.5°	246.8	247.9	270.8	314.0	356.6	355.5	654.0	3343.4	4823.5	5153.0	4133.2
75°	208.3	208.9	224.0	254.5	289.6	286.4	354.7	1811.3	2804.0	3033.2	2291.1
77.5°	177.3	178.0	187.7	204.6	229.5	228.3	258.8	782.6	1169.7	1155.3	783.7
80°	158.1	158.1	162.8	165.8	179.7	174.5	192.0	375.9	494.4	456.6	312.8
82.5°	124.0	124.5	152.6	151.5	141.5	134.8	134.8	221.5	261.9	242.3	183.1
85°	69.7	69.4	98.5	118.8	124.5	95.0	94.1	124.0	142.7	125.8	88.7
87.5°	29.9	30.5	45.6	52.8	70.5	59.1	58.3	64.0	72.7	62.8	41.1
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: P269020

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7027-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	810.1	802.6	786.2	766.0	747.6	735.5	724.7	708.9	709.8	698.7	690.7
5°	809.6	794.0	756.2	711.1	667.8	636.4	613.0	591.8	586.6	576.5	570.6
7.5°	810.1	784.8	721.2	649.1	595.4	555.8	535.7	524.6	521.9	518.5	518.9
10°	812.1	776.6	682.7	591.2	534.9	508.8	503.9	507.4	511.3	512.6	512.8
12.5°	816.6	769.0	640.5	539.5	497.0	488.9	497.3	509.1	516.9	520.6	520.3
15°	827.0	763.3	600.1	499.1	476.1	480.4	495.9	512.6	523.7	528.9	529.2
17.5°	838.2	755.0	558.4	468.0	460.7	471.5	490.7	510.2	524.0	529.7	530.9
20°	852.9	744.7	514.8	444.8	446.0	458.2	476.5	495.9	511.0	515.9	518.2
22.5°	872.1	733.5	476.6	425.8	429.3	438.8	452.8	469.8	483.0	485.3	487.3
25°	897.9	721.3	446.3	408.6	410.0	415.6	425.0	435.0	444.2	441.6	443.7
27.5°	932.6	711.1	423.6	392.9	390.3	391.4	396.3	399.4	404.3	397.2	397.9
30°	973.5	699.9	406.0	379.1	371.9	369.9	371.0	372.7	376.5	366.8	365.3
32.5°	1020.7	686.5	389.8	367.0	356.9	352.9	353.6	358.2	372.4	366.5	363.4
35°	1075.8	671.3	372.4	353.8	346.9	341.1	340.6	355.0	397.7	393.9	391.1
37.5°	1140.4	656.0	355.3	338.9	339.5	333.2	331.1	347.6	402.6	388.0	386.0
40°	1222.5	647.9	340.6	323.1	330.2	329.5	325.5	333.7	370.6	343.8	340.4
42.5°	1324.0	649.1	329.7	306.2	319.3	328.6	322.2	322.5	335.7	315.7	312.5
45°	1449.4	662.6	322.0	292.7	307.0	327.7	321.1	316.6	317.7	307.0	305.3
47.5°	1595.7	690.4	316.6	281.4	295.4	324.6	320.9	314.8	312.3	306.5	305.1
50°	1758.5	731.0	312.5	270.8	284.7	319.3	321.1	313.1	310.3	307.8	307.0
52.5°	1918.4	777.2	306.5	261.8	276.4	313.1	322.0	311.4	308.2	306.5	305.7
55°	2096.6	834.7	297.2	254.0	269.4	305.1	322.0	308.7	305.3	305.7	305.3
57.5°	2337.3	928.0	286.4	247.4	261.1	295.4	316.6	306.0	301.7	301.9	302.2
60°	2713.6	1092.5	273.2	240.7	250.7	283.9	309.0	299.6	295.4	296.4	296.7
62.5°	3266.9	1333.9	255.9	231.0	239.8	271.5	298.7	291.6	287.3	290.2	290.2
65°	3842.0	1546.7	234.7	218.6	228.3	258.1	285.8	281.4	277.1	283.9	283.5
67.5°	3996.6	1499.1	213.4	205.3	216.9	243.0	270.3	268.1	265.7	277.1	276.7
70°	3550.3	1203.5	193.9	191.3	204.4	227.0	253.7	253.7	252.2	260.9	258.8
72.5°	2704.9	853.4	175.3	176.7	190.0	209.5	235.5	237.6	235.4	239.6	238.0
75°	1448.1	488.4	156.7	160.6	172.1	191.7	215.6	217.5	216.1	215.9	216.6
77.5°	481.2	238.8	137.3	143.5	153.5	173.4	194.6	197.7	194.3	193.8	193.4
80°	214.3	150.0	115.6	124.0	132.9	152.4	172.5	175.1	171.3	176.4	169.9
82.5°	137.7	98.8	92.6	101.9	110.5	131.4	150.3	150.9	147.5	171.3	146.1
85°	66.8	61.2	69.7	78.1	85.5	103.3	124.5	124.9	116.2	105.9	102.1
87.5°	33.2	35.7	46.5	54.0	57.8	70.8	90.6	88.9	85.2	77.4	71.4
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)