

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: P192169

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192169
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-T2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6116 lumens
Efficiency: N/A
Efficacy: 103.7 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): 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

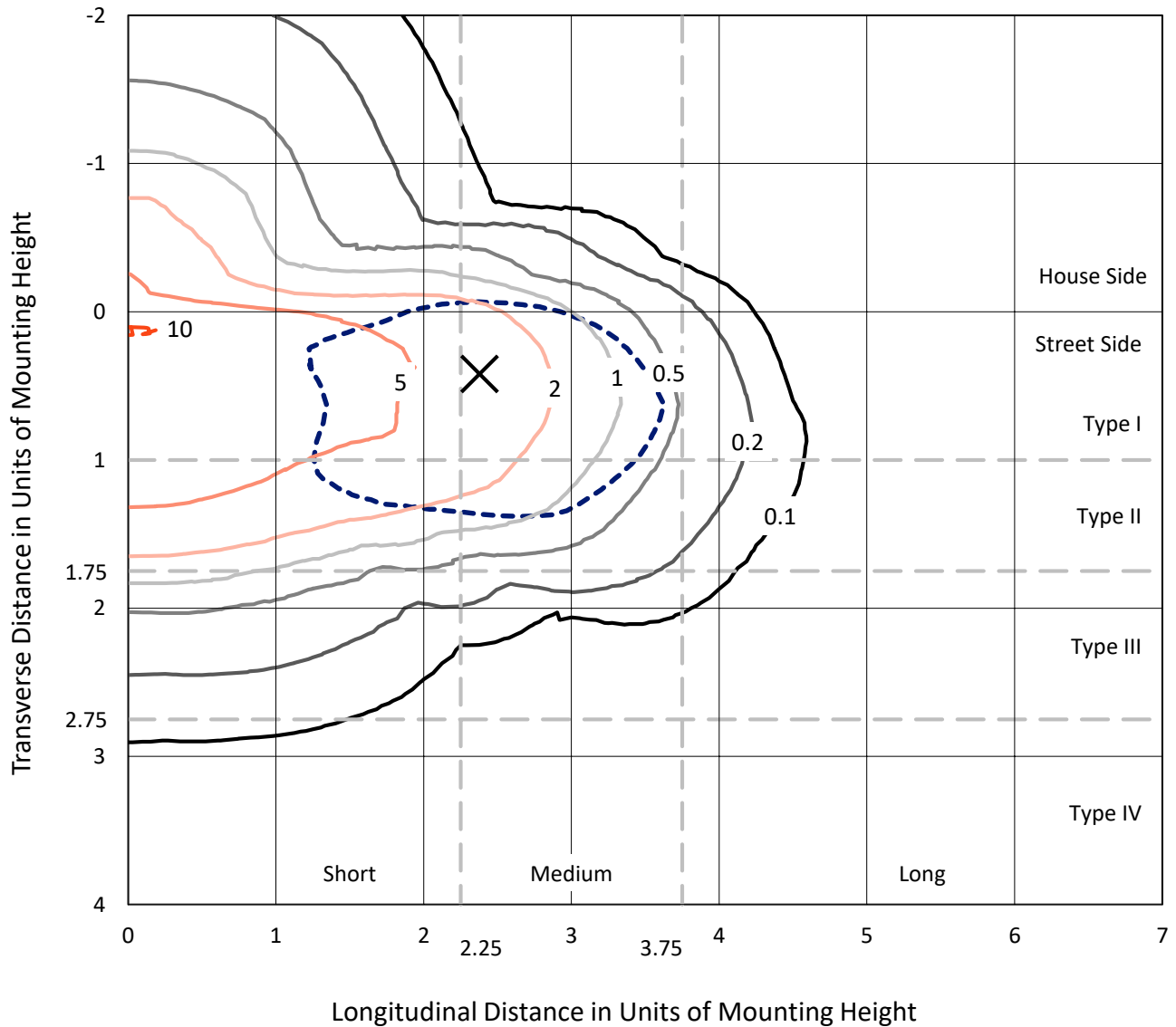


REPORT NUMBER: P192169

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

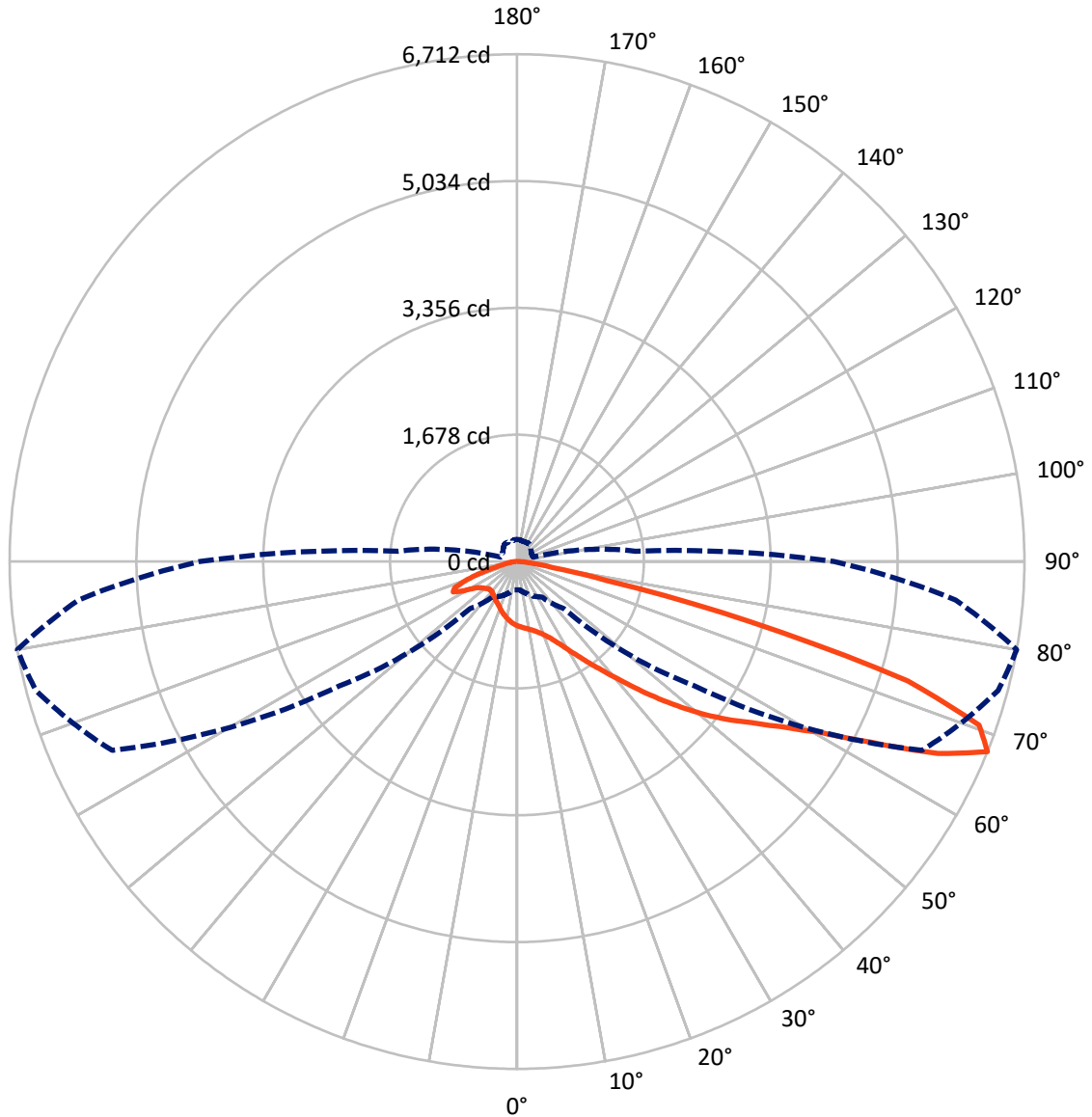


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P192169

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192169

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.3	0.0	1126.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4989.7	0.0	4989.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	6116.0	0.0	6116.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	1.3
10°-20°	225.8	3.7
20°-30°	373.7	6.1
30°-40°	611.3	10.0
40°-50°	987.1	16.1
50°-60°	1425.0	23.3
60°-70°	1572.6	25.7
70°-80°	724.9	11.9
80°-90°	117.2	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°	6116.0	100.0
0°-180°	6116.0	100.0



REPORT NUMBER: P192169

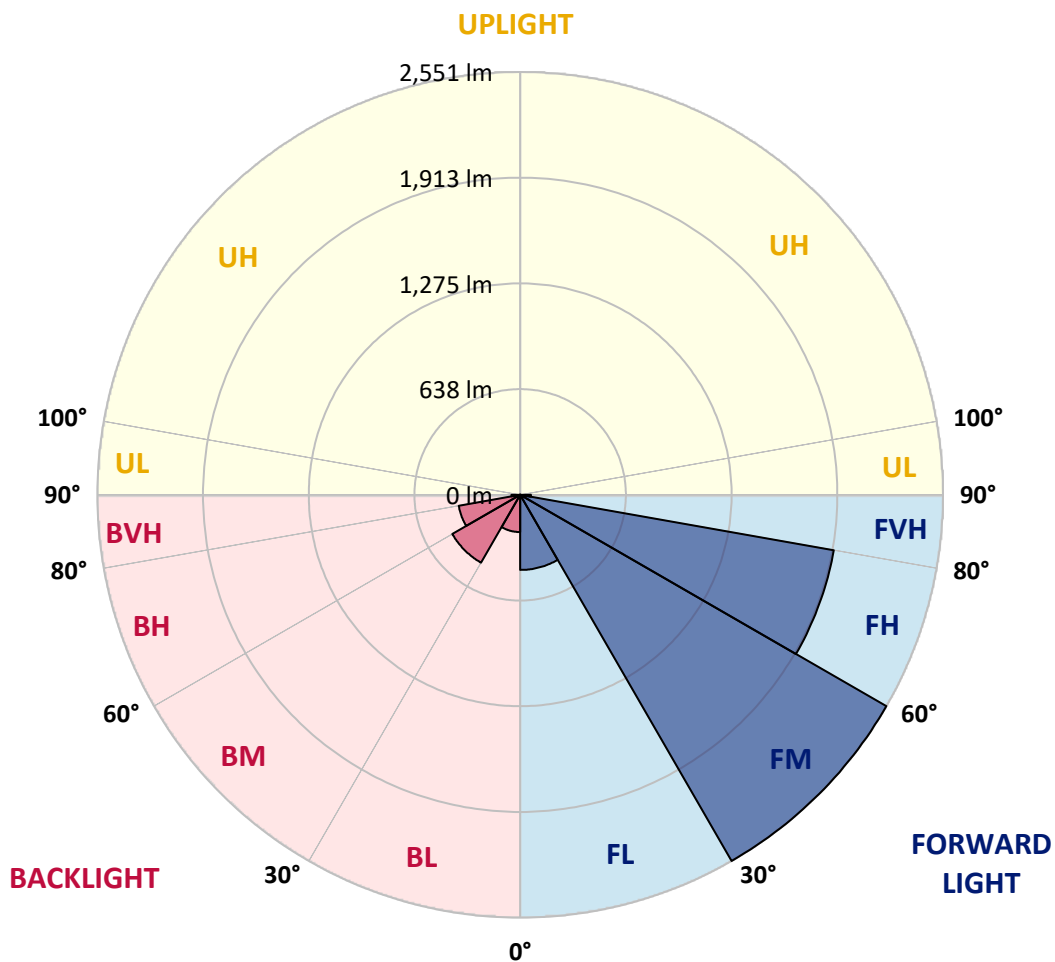
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.2	7.4			
FM (30°-60°)	2550.8	41.7			
FH (60°-80°)	1921.2	31.4			G2/5000
FVH (80°-90°)	64.5	1.1			G1/100
BL (0°-30°)	224.7	3.7	B1/500		
BM (30°-60°)	472.6	7.7	B1/1000		
BH (60°-80°)	376.3	6.2	B1/500		G1/500
BVH (80°-90°)	52.8	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: P192169

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7
2.5°	929.5	924.1	925.0	923.5	918.9	911.1	902.7	887.3	871.4	862.9	856.3
5°	1007.2	1005.7	1003.5	998.7	987.3	971.0	950.9	923.8	894.6	879.2	864.4
7.5°	1065.3	1064.4	1061.7	1058.7	1047.5	1027.9	997.5	959.0	916.5	895.5	872.6
10°	1070.1	1071.6	1073.7	1081.8	1083.3	1072.8	1041.8	995.1	939.4	912.3	883.1
12.5°	1029.1	1032.5	1040.6	1061.4	1083.3	1096.3	1080.3	1033.1	966.2	933.4	896.4
15°	974.9	976.8	986.7	1015.3	1054.7	1094.8	1109.8	1074.9	1000.8	960.5	916.2
17.5°	951.8	952.7	959.6	978.6	1015.3	1072.5	1126.4	1120.4	1043.3	994.2	940.6
20°	940.0	942.1	952.1	970.7	993.9	1043.9	1128.8	1169.5	1093.9	1036.4	971.3
22.5°	973.4	972.5	976.2	985.5	1005.1	1035.2	1127.0	1220.0	1158.3	1090.6	1011.4
25°	1051.4	1054.7	1048.4	1037.9	1044.2	1065.3	1136.6	1274.8	1239.0	1160.1	1063.8
27.5°	1162.5	1159.2	1149.9	1125.2	1112.2	1121.3	1168.5	1333.9	1339.3	1251.7	1133.0
30°	1273.3	1270.6	1261.6	1231.5	1205.0	1197.5	1230.6	1401.6	1458.8	1361.6	1217.9
32.5°	1388.3	1385.3	1376.9	1346.8	1314.9	1297.4	1318.8	1479.9	1599.7	1492.8	1317.9
35°	1530.2	1524.4	1506.7	1464.8	1433.5	1420.0	1429.9	1578.3	1762.3	1648.2	1439.2
37.5°	1663.6	1672.3	1654.2	1596.4	1555.8	1550.9	1562.1	1698.5	1937.5	1821.9	1578.6
40°	1797.5	1799.0	1782.8	1735.5	1693.7	1685.8	1713.8	1844.2	2144.4	2029.7	1748.2
42.5°	1936.0	1939.1	1911.7	1868.0	1837.3	1838.8	1870.7	2014.9	2381.7	2274.5	1943.3
45°	2100.1	2104.7	2074.5	2017.3	1989.3	2045.6	2032.4	2206.4	2641.8	2552.7	2167.3
47.5°	2271.8	2278.7	2255.8	2202.2	2167.3	2244.7	2194.1	2418.7	2921.8	2851.1	2413.3
50°	2365.4	2375.3	2397.6	2393.7	2386.2	2373.2	2374.4	2646.3	3210.6	3161.8	2666.2
52.5°	2315.1	2314.8	2396.1	2494.9	2600.3	2608.1	2594.2	2886.3	3480.4	3465.6	2904.4
55°	2085.1	2100.7	2223.9	2415.1	2702.9	2882.7	2923.6	3161.2	3745.3	3762.5	3146.1
57.5°	1702.1	1715.0	1881.2	2147.7	2564.4	3045.9	3392.1	3560.8	4041.6	4121.7	3468.0
60°	1154.4	1170.1	1346.2	1666.3	2191.7	2954.9	3838.1	4273.7	4396.3	4578.5	3919.7
62.5°	678.4	692.5	836.1	1051.1	1543.1	2532.5	4033.8	5288.1	4959.6	5267.7	4608.6
65°	467.0	476.6	546.5	654.3	886.7	1705.7	3791.1	5988.5	5826.5	6121.6	5407.4
67.5°	375.8	374.6	430.0	503.4	570.9	879.5	2866.7	5909.3	6588.9	6712.0	5822.0
70°	309.5	308.3	346.0	406.8	456.2	495.3	1561.5	4986.7	6433.5	6483.5	5440.2
72.5°	258.9	260.1	284.2	329.4	374.3	373.1	686.2	3508.1	5061.1	5406.8	4336.7
75°	218.6	219.2	235.2	267.1	303.8	300.5	372.2	1900.5	2942.0	3182.6	2403.9
77.5°	186.1	186.7	196.9	214.7	240.9	239.7	271.6	821.1	1227.3	1212.2	822.3
80°	165.9	165.9	170.7	174.0	188.5	183.1	201.4	394.4	518.8	479.0	328.2
82.5°	130.1	130.7	160.2	159.0	148.4	141.5	141.5	232.4	274.9	254.1	192.1
85°	73.2	72.9	103.3	124.7	130.7	99.7	98.8	130.1	149.6	131.9	93.0
87.5°	31.3	31.9	47.9	55.4	74.1	62.0	61.1	67.1	76.2	65.9	43.1
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: P192169

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7	849.7
2.5°	850.0	842.2	825.0	803.6	784.4	771.7	760.3	743.7	744.6	733.2	724.7
5°	849.4	833.1	793.4	746.1	700.6	667.8	643.1	620.9	615.4	604.9	598.6
7.5°	850.0	823.5	756.7	681.1	624.8	583.2	562.1	550.4	547.7	544.1	544.4
10°	852.1	814.8	716.3	620.3	561.2	533.8	528.7	532.3	536.6	537.8	538.1
12.5°	856.9	806.9	672.0	566.1	521.5	513.1	521.8	534.1	542.3	546.2	545.9
15°	867.8	800.9	629.6	523.6	499.5	504.0	520.3	537.8	549.5	554.9	555.2
17.5°	879.5	792.2	585.9	491.1	483.3	494.7	514.9	535.3	549.8	555.8	557.0
20°	894.9	781.3	540.2	466.7	467.9	480.8	499.8	520.3	536.3	541.4	543.8
22.5°	915.0	769.6	500.1	446.8	450.4	460.4	475.1	492.9	506.7	509.2	511.3
25°	942.1	757.0	468.2	428.8	430.3	436.0	445.9	456.5	466.1	463.4	465.5
27.5°	978.6	746.1	444.4	412.2	409.5	410.7	415.8	419.1	424.2	416.7	417.6
30°	1021.3	734.4	426.0	397.7	390.2	388.1	389.3	391.1	395.0	384.8	383.3
32.5°	1071.0	720.2	408.9	385.1	374.6	370.3	370.9	375.8	390.8	384.5	381.2
35°	1128.8	704.3	390.8	371.3	364.0	358.0	357.4	372.5	417.3	413.4	410.4
37.5°	1196.6	688.3	372.8	355.6	356.2	349.6	347.5	364.6	422.4	407.1	405.0
40°	1282.7	679.9	357.4	339.0	346.6	345.7	341.4	350.2	388.7	360.7	357.1
42.5°	1389.3	681.1	346.0	321.3	335.1	344.8	338.1	338.4	352.3	331.2	327.9
45°	1520.8	695.2	337.8	307.1	322.2	343.9	336.9	332.1	333.3	322.2	320.4
47.5°	1674.4	724.4	332.1	295.4	309.8	340.5	336.6	330.3	327.6	321.6	320.1
50°	1845.1	766.9	327.9	284.2	298.7	335.1	336.9	328.5	325.5	323.1	322.2
52.5°	2012.8	815.4	321.6	274.6	290.0	328.5	337.8	326.7	323.4	321.6	320.7
55°	2199.8	875.9	311.9	266.5	282.7	320.1	337.8	324.0	320.4	320.7	320.4
57.5°	2452.4	973.7	300.5	259.5	274.0	309.8	332.1	321.0	316.5	316.8	317.1
60°	2847.2	1146.3	286.6	252.6	263.2	297.8	324.3	314.3	309.8	311.0	311.3
62.5°	3427.7	1399.5	268.6	242.4	251.7	284.8	313.4	305.9	301.4	304.4	304.4
65°	4031.1	1622.9	246.3	229.4	239.7	270.7	299.9	295.4	290.9	297.8	297.5
67.5°	4193.4	1572.9	224.0	215.3	227.6	255.0	283.6	281.2	278.8	290.9	290.3
70°	3725.1	1262.8	203.5	200.8	214.4	238.2	266.2	266.2	264.7	273.7	271.6
72.5°	2838.1	895.5	184.0	185.5	199.3	219.8	247.2	249.3	246.9	251.4	249.6
75°	1519.3	512.5	164.4	168.6	180.7	201.1	226.1	228.2	226.7	226.4	227.3
77.5°	504.9	250.5	143.9	150.5	161.1	181.9	204.1	207.5	203.8	203.2	202.9
80°	224.9	157.5	121.3	130.1	139.4	159.9	181.0	183.7	179.8	185.2	178.2
82.5°	144.5	103.6	97.3	106.9	115.9	137.9	157.8	158.4	154.8	179.8	153.3
85°	70.2	64.1	73.2	81.9	89.7	108.4	130.7	131.0	121.9	111.1	107.2
87.5°	34.9	37.3	48.8	56.6	60.5	74.4	95.1	93.3	89.4	81.3	75.0
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)