

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: P269178

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269178
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-03-LED-E1-T2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10207.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

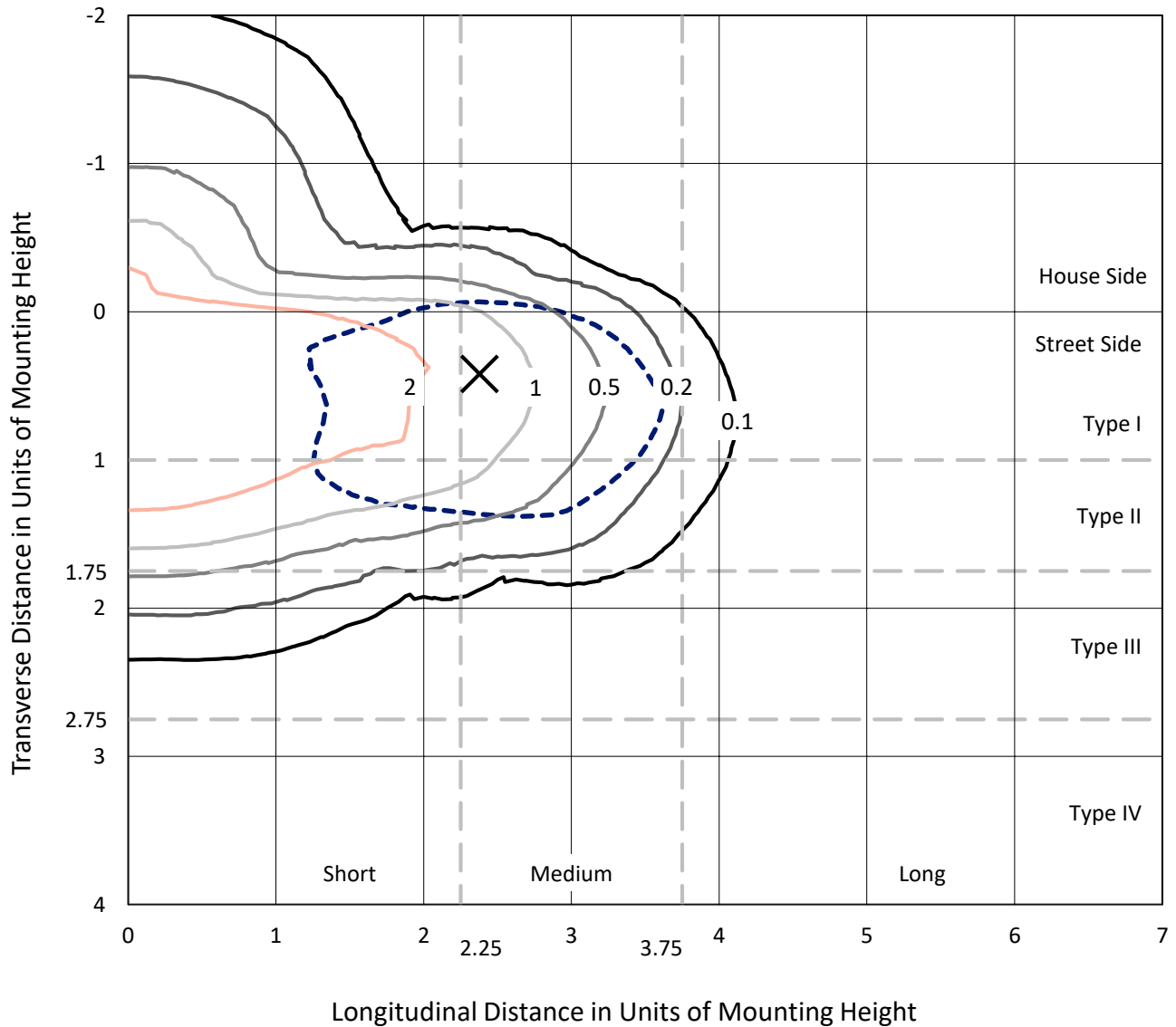
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269178
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-600

Iso-Footcandle Lines of Horizontal Illumination

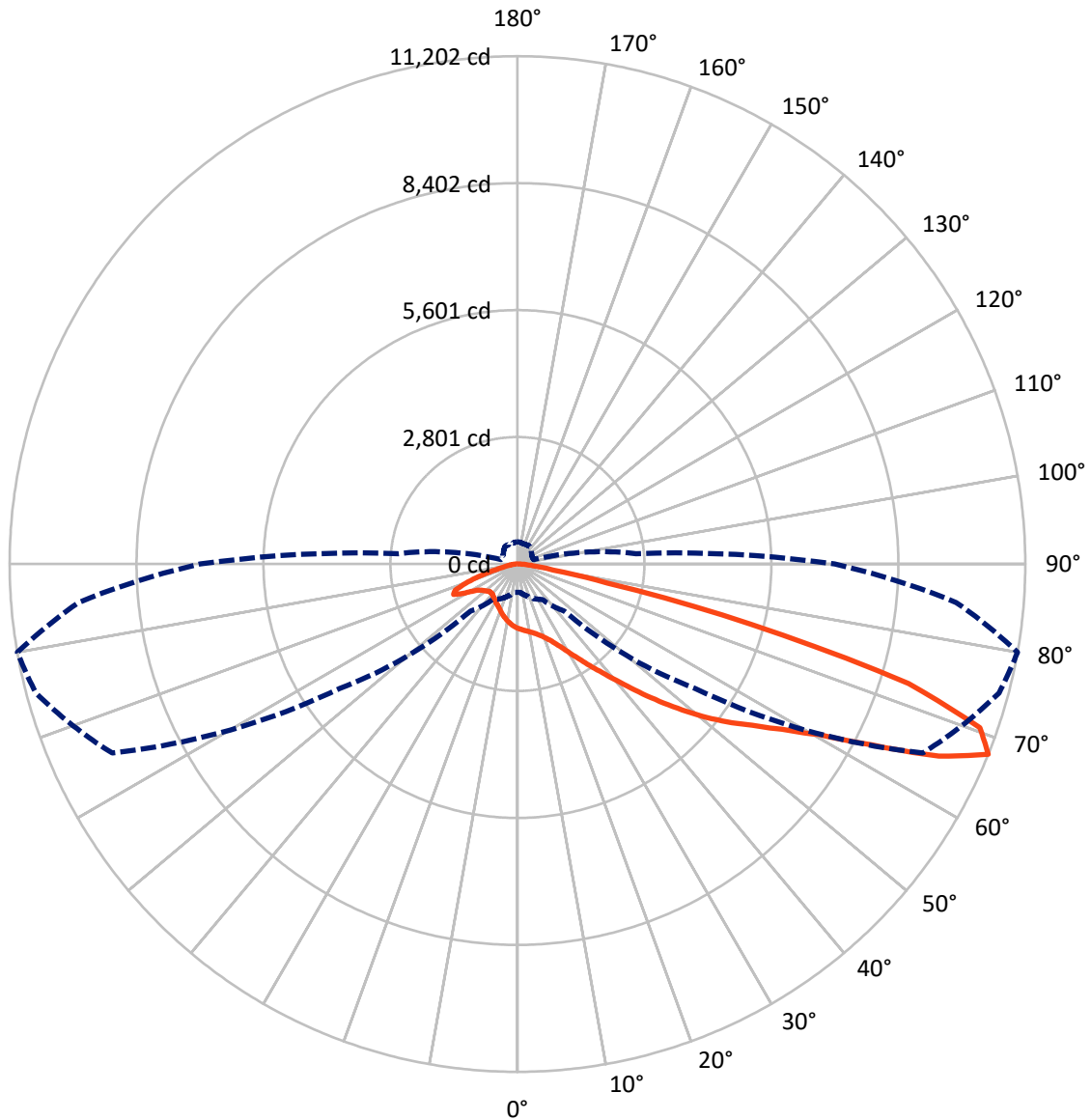
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269178
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269178

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.8	0.0	1879.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8327.6	0.0	8327.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	10207.4	0.0	10207.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.3
10°-20°	376.8	3.7
20°-30°	623.7	6.1
30°-40°	1020.3	10.0
40°-50°	1647.4	16.1
50°-60°	2378.3	23.3
60°-70°	2624.6	25.7
70°-80°	1209.8	11.9
80°-90°	195.7	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°	10207.4	100.0
0°-180°	10207.4	100.0



REPORT NUMBER: P269178

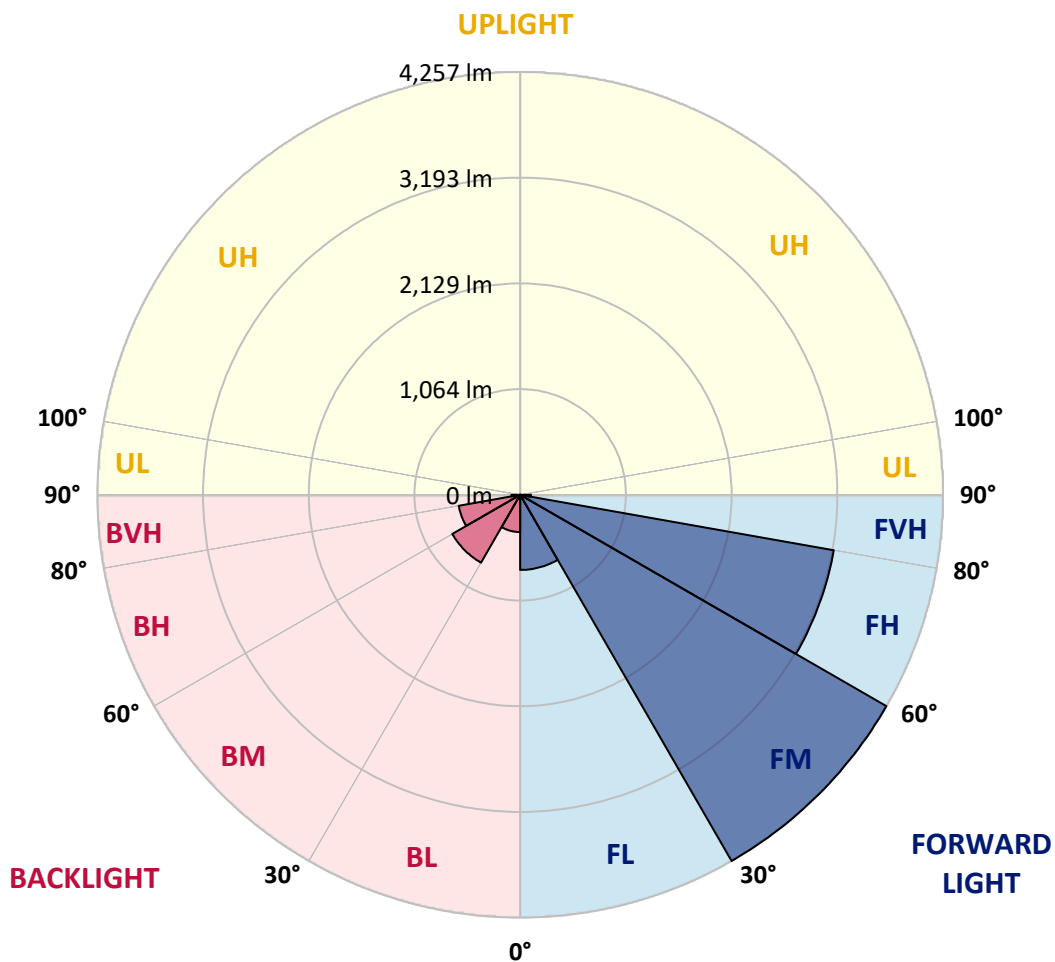
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	756.3	7.4			
FM	(30°-60°)	4257.3	41.7			
FH	(60°-80°)	3206.4	31.4			G2/5000
FVH	(80°-90°)	107.6	1.1			G2/225
BL	(0°-30°)	375.0	3.7	B1/500		
BM	(30°-60°)	788.7	7.7	B1/1000		
BH	(60°-80°)	628.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	88.1	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P269178

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2
2.5°	1551.3	1542.2	1543.7	1541.2	1533.6	1520.7	1506.5	1480.9	1454.3	1440.3	1429.2
5°	1680.9	1678.5	1674.9	1666.8	1647.8	1620.6	1586.9	1541.8	1493.1	1467.3	1442.8
7.5°	1777.9	1776.4	1771.8	1766.8	1748.2	1715.7	1664.9	1600.5	1529.6	1494.5	1456.3
10°	1785.9	1788.4	1791.9	1805.6	1808.1	1790.5	1738.7	1660.8	1567.8	1522.6	1473.8
12.5°	1717.6	1723.0	1736.8	1771.4	1808.1	1829.7	1803.1	1724.1	1612.5	1557.8	1495.9
15°	1627.2	1630.2	1646.8	1694.6	1760.3	1827.2	1852.2	1793.9	1670.4	1603.0	1529.2
17.5°	1588.5	1590.0	1601.5	1633.2	1694.6	1790.0	1880.0	1869.8	1741.3	1659.3	1569.9
20°	1568.9	1572.4	1588.9	1620.2	1658.8	1742.3	1883.9	1951.7	1825.6	1729.6	1621.1
22.5°	1624.7	1623.1	1629.2	1644.7	1677.5	1727.7	1881.0	2036.2	1933.2	1820.1	1687.9
25°	1754.7	1760.3	1749.8	1732.2	1742.7	1777.9	1897.0	2127.6	2067.9	1936.1	1775.4
27.5°	1940.2	1934.7	1919.0	1877.8	1856.3	1871.3	1950.3	2226.2	2235.3	2089.0	1891.0
30°	2125.1	2120.5	2105.5	2055.3	2011.0	1998.5	2053.7	2339.2	2434.6	2272.4	2032.7
32.5°	2317.1	2312.1	2298.0	2247.7	2194.5	2165.4	2201.0	2469.9	2669.9	2491.4	2199.5
35°	2553.8	2544.3	2514.5	2444.7	2392.5	2369.9	2386.4	2634.2	2941.2	2750.8	2402.1
37.5°	2776.4	2790.9	2760.9	2664.4	2596.6	2588.5	2607.2	2834.7	3233.7	3040.8	2634.6
40°	3000.0	3002.6	2975.4	2896.6	2826.6	2813.6	2860.4	3078.0	3578.9	3387.5	2917.7
42.5°	3231.3	3236.2	3190.5	3117.6	3066.4	3068.9	3122.1	3362.9	3974.9	3796.0	3243.2
45°	3505.0	3512.6	3462.3	3366.8	3320.1	3414.1	3392.0	3682.4	4409.2	4260.3	3617.1
47.5°	3791.4	3803.1	3764.8	3675.4	3617.1	3746.3	3661.9	4036.8	4876.4	4758.3	4027.7
50°	3947.8	3964.4	4001.6	3995.0	3982.5	3960.8	3962.9	4416.6	5358.4	5277.0	4449.8
52.5°	3863.9	3863.4	3999.1	4163.9	4339.7	4352.7	4329.7	4817.2	5808.6	5783.9	4847.3
55°	3479.9	3506.1	3711.5	4030.6	4511.1	4811.1	4879.5	5275.9	6250.9	6279.4	5250.9
57.5°	2840.7	2862.3	3139.8	3584.4	4280.0	5083.5	5661.4	5942.7	6745.4	6879.0	5788.0
60°	1926.7	1952.7	2246.8	2781.0	3657.8	4931.8	6405.6	7132.7	7337.3	7641.3	6541.7
62.5°	1132.1	1155.8	1395.4	1754.3	2575.4	4226.6	6732.3	8825.7	8277.5	8791.5	7691.6
65°	779.4	795.4	912.0	1092.0	1479.9	2846.8	6327.2	9994.6	9724.2	10216.8	9024.7
67.5°	627.1	625.1	717.6	840.3	952.8	1467.9	4784.5	9862.4	10996.6	11202.1	9716.6
70°	516.5	514.5	577.4	678.8	761.4	826.6	2606.1	8322.6	10737.4	10820.8	9079.4
72.5°	432.2	434.2	474.3	549.8	624.6	622.6	1145.2	5854.9	8446.9	9023.7	7237.7
75°	364.8	365.8	392.5	445.6	507.1	501.6	621.1	3171.8	4910.0	5311.6	4012.1
77.5°	310.5	311.5	328.6	358.3	402.0	400.0	453.3	1370.4	2048.2	2023.2	1372.4
80°	276.9	276.9	284.9	290.4	314.5	305.6	336.1	658.3	865.8	799.5	547.7
82.5°	217.1	218.1	267.3	265.3	247.8	236.2	236.2	388.0	458.9	424.1	320.6
85°	122.1	121.6	172.4	208.0	218.1	166.4	164.7	217.1	249.8	220.2	155.2
87.5°	52.2	53.3	79.9	92.4	123.6	103.6	102.0	112.1	127.1	110.0	71.9
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: P269178

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2	1418.2
2.5°	1418.7	1405.6	1376.9	1341.2	1309.1	1288.0	1268.9	1241.2	1242.7	1223.6	1209.6
5°	1417.6	1390.4	1324.1	1245.2	1169.4	1114.5	1073.4	1036.1	1027.1	1009.5	999.0
7.5°	1418.7	1374.3	1262.8	1136.6	1042.8	973.4	938.2	918.5	914.0	908.0	908.5
10°	1422.1	1359.9	1195.5	1035.1	936.8	890.9	882.5	888.5	895.5	897.4	897.9
12.5°	1430.2	1346.7	1121.7	944.7	870.4	856.3	870.8	891.5	905.0	911.6	911.2
15°	1448.2	1336.7	1050.7	874.0	833.6	841.3	868.3	897.4	917.1	926.2	926.6
17.5°	1467.9	1322.1	978.0	819.7	806.6	825.6	859.3	893.5	917.6	927.7	929.7
20°	1493.5	1304.0	901.4	778.9	780.8	802.5	834.2	868.3	895.0	903.5	907.6
22.5°	1527.2	1284.4	834.6	745.8	751.8	768.3	792.9	822.6	845.8	849.7	853.3
25°	1572.4	1263.3	781.4	715.6	718.0	727.6	744.2	761.9	777.9	773.4	776.9
27.5°	1633.2	1245.2	741.7	687.9	683.4	685.4	694.0	699.5	708.0	695.5	696.9
30°	1704.5	1225.6	711.1	663.8	651.4	647.8	649.7	652.8	659.3	642.2	639.8
32.5°	1787.4	1202.0	682.4	642.6	625.1	618.2	619.1	627.1	652.3	641.7	636.2
35°	1883.9	1175.4	652.3	619.7	607.6	597.6	596.5	621.5	696.5	690.0	685.0
37.5°	1997.0	1148.8	622.2	593.5	594.5	583.4	579.9	608.5	705.0	679.4	675.9
40°	2140.8	1134.6	596.5	565.8	578.4	576.9	569.9	584.4	648.8	602.0	595.9
42.5°	2318.6	1136.6	577.4	536.2	559.4	575.4	564.3	564.9	587.9	552.7	547.2
45°	2538.3	1160.3	563.9	512.6	537.6	573.8	562.2	554.3	556.3	537.6	534.8
47.5°	2794.4	1209.1	554.3	493.0	517.1	568.4	561.8	551.3	546.8	536.6	534.2
50°	3079.4	1279.9	547.2	474.3	498.5	559.4	562.2	548.2	543.3	539.3	537.6
52.5°	3359.3	1360.8	536.6	458.2	483.9	548.2	563.9	545.2	539.7	536.6	535.2
55°	3671.5	1461.8	520.6	444.8	471.9	534.2	563.9	540.7	534.8	535.2	534.8
57.5°	4092.9	1625.2	501.6	433.2	457.2	517.1	554.3	535.7	528.2	528.7	529.1
60°	4751.9	1913.1	478.3	421.7	439.2	497.0	541.1	524.6	517.1	519.1	519.6
62.5°	5720.6	2335.8	448.3	404.5	420.0	475.5	523.2	510.5	503.1	508.0	508.0
65°	6727.6	2708.6	411.1	382.9	400.0	451.8	500.5	493.0	485.4	497.0	496.6
67.5°	6998.5	2625.1	373.9	359.3	380.0	425.6	473.3	469.4	465.3	485.4	484.5
70°	6217.2	2107.6	339.6	335.2	357.7	397.5	444.2	444.2	441.6	456.8	453.3
72.5°	4736.8	1494.5	307.0	309.6	332.6	366.9	412.6	416.1	412.1	419.6	416.5
75°	2535.6	855.2	274.4	281.3	301.6	335.6	377.4	380.9	378.4	377.8	379.4
77.5°	842.7	418.2	240.1	251.3	268.9	303.4	340.6	346.2	340.2	339.2	338.8
80°	375.4	262.8	202.5	217.1	232.8	266.8	302.0	306.5	300.0	309.0	297.5
82.5°	241.3	172.8	162.4	178.5	193.4	230.1	263.4	264.3	258.4	300.0	255.7
85°	117.0	107.1	122.1	136.7	149.7	180.9	218.1	218.6	203.6	185.4	178.9
87.5°	58.3	62.3	81.3	94.5	101.0	124.1	158.8	155.8	149.3	135.6	125.1
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)