

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: P193091

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193091
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-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11363 lumens
Efficiency: N/A
Efficacy: 118.4 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



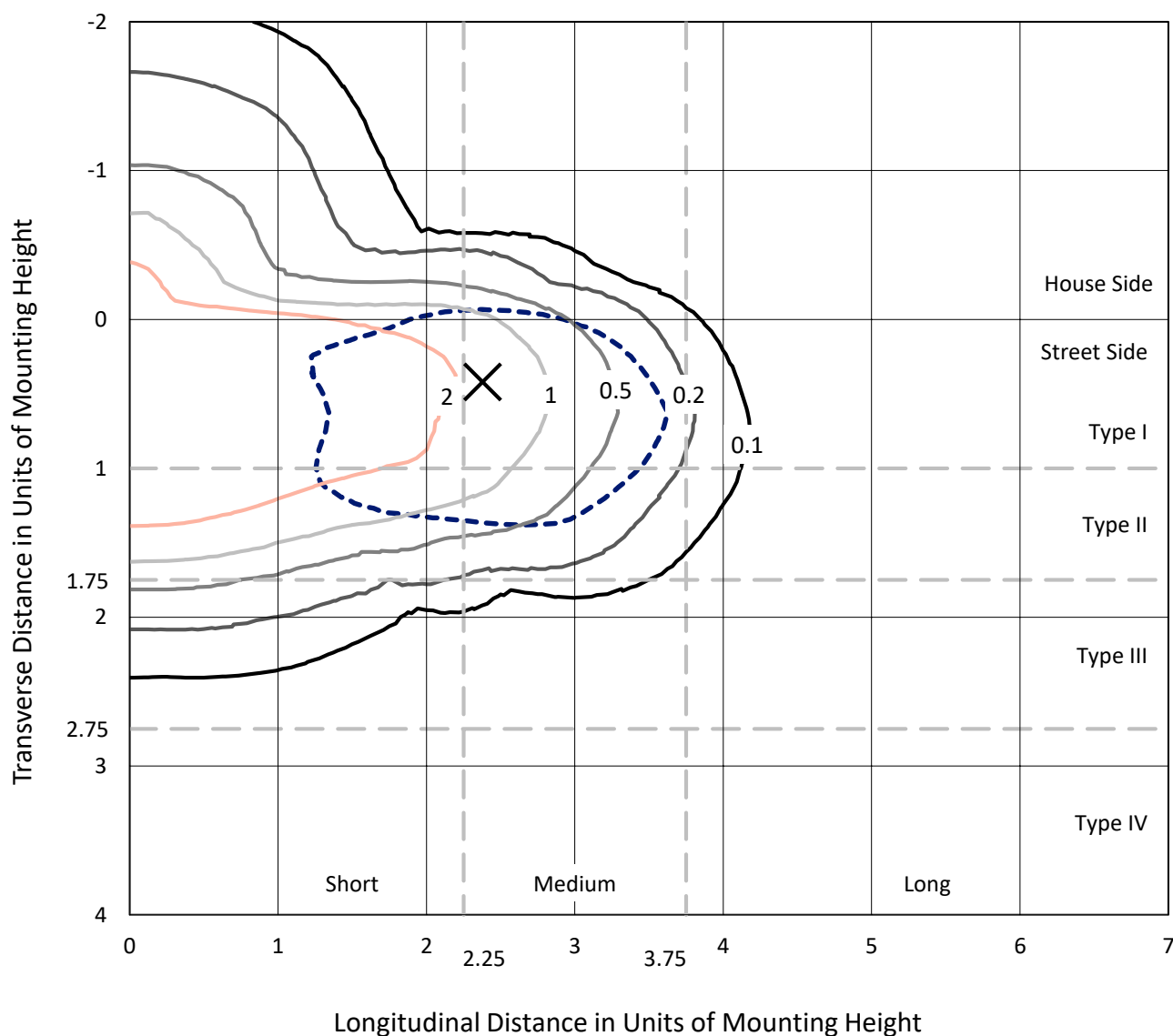
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

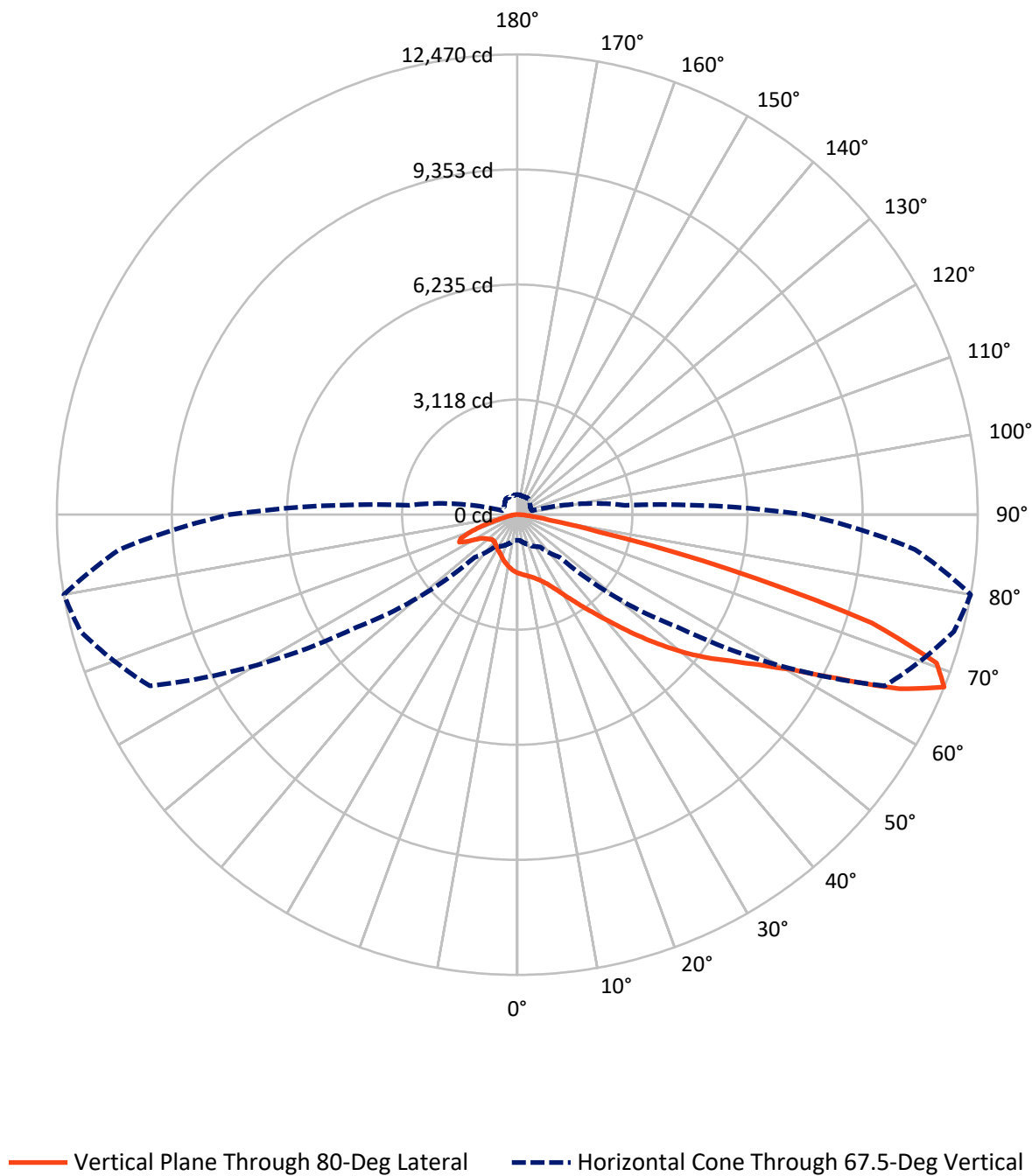


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2092.6	0.0	2092.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9270.3	0.0	9270.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	11363.0	0.0	11363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	1.3
10°-20°	419.5	3.7
20°-30°	694.4	6.1
30°-40°	1135.8	10.0
40°-50°	1833.9	16.1
50°-60°	2647.5	23.3
60°-70°	2921.7	25.7
70°-80°	1346.7	11.9
80°-90°	217.8	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°	11363.0	100.0
0°-180°	11363.0	100.0

Coefficient of Utilization



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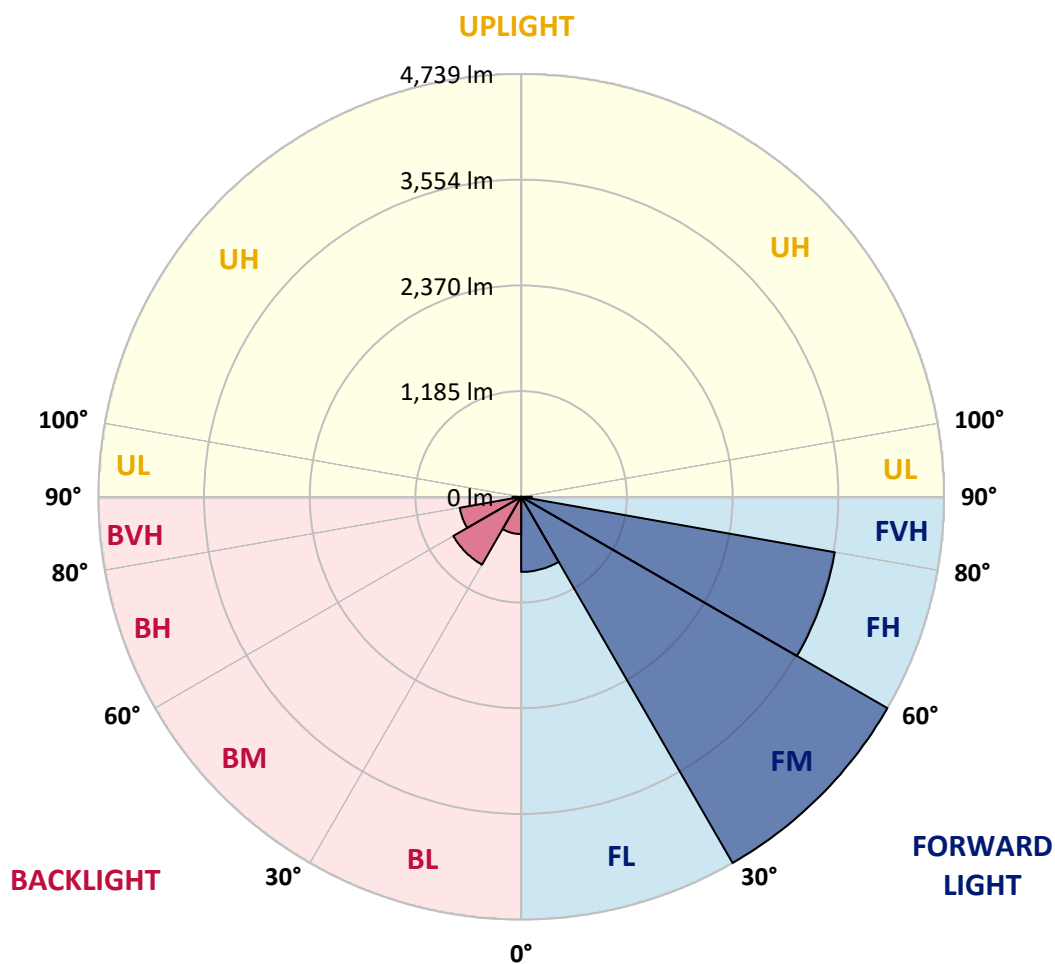
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	842.0	7.4			
FM	(30°-60°)	4739.2	41.7			
FH	(60°-80°)	3569.4	31.4			G2/5000
FVH	(80°-90°)	119.8	1.1			G2/225
BL	(0°-30°)	417.5	3.7	B1/500		
BM	(30°-60°)	878.0	7.7	B1/1000		
BH	(60°-80°)	699.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	98.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1726.9	1716.8	1718.5	1715.7	1707.2	1692.8	1677.1	1648.6	1618.9	1603.3	1591.0
5°	1871.2	1868.5	1864.5	1855.5	1834.3	1804.1	1766.6	1716.3	1662.1	1633.4	1606.1
7.5°	1979.2	1977.5	1972.4	1966.8	1946.1	1909.9	1853.4	1781.7	1702.8	1663.7	1621.2
10°	1988.1	1990.9	1994.8	2010.0	2012.8	1993.2	1935.5	1848.8	1745.3	1695.0	1640.7
12.5°	1912.0	1918.1	1933.4	1971.9	2012.8	2036.8	2007.2	1919.3	1795.1	1734.2	1665.3
15°	1811.4	1814.7	1833.2	1886.4	1959.6	2034.0	2061.9	1997.0	1859.5	1784.5	1702.3
17.5°	1768.3	1770.0	1782.8	1818.1	1886.4	1992.6	2092.8	2081.5	1938.4	1847.1	1747.6
20°	1746.5	1750.4	1768.8	1803.6	1846.6	1939.5	2097.2	2172.7	2032.3	1925.4	1804.6
22.5°	1808.6	1806.9	1813.6	1830.9	1867.4	1923.3	2093.9	2266.7	2152.1	2026.2	1879.0
25°	1953.4	1959.6	1947.9	1928.3	1940.0	1979.2	2111.8	2368.5	2302.0	2155.3	1976.4
27.5°	2159.8	2153.7	2136.3	2090.4	2066.4	2083.2	2171.1	2478.2	2488.3	2325.5	2105.1
30°	2365.7	2360.6	2343.9	2288.0	2238.7	2224.7	2286.2	2604.0	2710.2	2529.7	2262.8
32.5°	2579.4	2573.8	2558.2	2502.2	2442.9	2410.5	2450.2	2749.5	2972.2	2773.5	2448.5
35°	2842.9	2832.3	2799.2	2721.5	2663.3	2638.2	2656.6	2932.4	3274.2	3062.2	2674.0
37.5°	3090.7	3106.9	3073.4	2966.0	2890.5	2881.5	2902.3	3155.6	3599.8	3385.0	2932.9
40°	3339.6	3342.5	3312.2	3224.5	3146.6	3132.1	3184.2	3426.4	3984.1	3771.0	3248.0
42.5°	3597.1	3602.6	3551.7	3470.5	3413.5	3416.3	3475.6	3743.6	4424.9	4225.7	3610.4
45°	3901.8	3910.3	3854.3	3748.0	3696.0	3800.6	3776.0	4099.3	4908.3	4742.6	4026.6
47.5°	4220.6	4233.6	4191.0	4091.5	4026.6	4170.4	4076.4	4493.8	5428.4	5297.0	4483.7
50°	4394.7	4413.2	4454.6	4447.3	4433.3	4409.2	4411.5	4916.6	5965.0	5874.4	4953.6
52.5°	4301.3	4300.8	4451.8	4635.3	4831.0	4845.5	4819.9	5362.5	6466.2	6438.7	5396.0
55°	3873.9	3903.0	4131.7	4486.9	5021.8	5355.8	5431.9	5873.2	6958.5	6990.3	5845.3
57.5°	3162.3	3186.3	3495.2	3990.2	4764.5	5659.0	6302.3	6615.5	7509.0	7657.8	6443.2
60°	2144.8	2173.8	2501.1	3095.8	4071.9	5490.1	7130.8	7940.2	8167.9	8506.4	7282.3
62.5°	1260.3	1286.6	1553.4	1952.9	2867.0	4705.1	7494.4	9824.8	9214.6	9786.8	8562.3
65°	867.6	885.5	1015.3	1215.6	1647.4	3169.1	7043.5	11126.1	10825.1	11373.4	10046.4
67.5°	698.1	695.9	798.8	935.4	1060.7	1634.1	5326.1	10978.9	12241.5	12470.3	10816.6
70°	575.0	572.8	642.8	755.7	847.6	920.2	2901.1	9264.8	11952.9	12045.8	10107.3
72.5°	481.1	483.4	528.0	612.0	695.3	693.1	1274.8	6517.7	9403.1	10045.3	8057.1
75°	406.1	407.2	436.9	496.1	564.5	558.4	691.4	3530.9	5465.9	5912.9	4466.3
77.5°	345.7	346.8	365.8	398.9	447.5	445.3	504.6	1525.5	2280.1	2252.2	1527.8
80°	308.2	308.2	317.2	323.3	350.1	340.2	374.2	732.8	963.8	890.0	609.7
82.5°	241.7	242.8	297.6	295.3	275.8	262.9	262.9	431.9	510.8	472.1	356.9
85°	135.9	135.4	191.9	231.6	242.8	185.2	183.4	241.7	278.1	245.1	172.8
87.5°	58.1	59.3	88.9	102.9	137.6	115.3	113.5	124.8	141.5	122.5	80.0
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°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1579.3	1564.7	1532.8	1493.0	1457.3	1433.8	1412.5	1381.7	1383.4	1362.1	1346.5
5°	1578.1	1547.8	1474.0	1386.2	1301.8	1240.7	1194.9	1153.4	1143.4	1123.8	1112.1
7.5°	1579.3	1529.9	1405.8	1265.3	1160.8	1083.6	1044.4	1022.5	1017.5	1010.8	1011.4
10°	1583.1	1513.8	1330.8	1152.3	1042.8	991.8	982.4	989.1	996.9	999.0	999.6
12.5°	1592.1	1499.2	1248.7	1051.7	968.9	953.2	969.4	992.4	1007.5	1014.8	1014.3
15°	1612.2	1488.0	1169.7	972.9	928.0	936.5	966.6	999.0	1020.9	1031.0	1031.5
17.5°	1634.1	1471.8	1088.7	912.5	897.9	919.1	956.6	994.6	1021.5	1032.7	1034.9
20°	1662.6	1451.6	1003.5	867.1	869.2	893.4	928.6	966.6	996.3	1005.8	1010.3
22.5°	1700.1	1429.8	929.1	830.2	836.9	855.3	882.7	915.7	941.5	945.9	949.9
25°	1750.4	1406.3	869.9	796.6	799.3	810.0	828.5	848.1	866.0	861.0	864.9
27.5°	1818.1	1386.2	825.7	765.8	760.8	763.0	772.6	778.7	788.2	774.2	775.8
30°	1897.5	1364.4	791.6	739.0	725.1	721.1	723.3	726.7	733.9	714.9	712.2
32.5°	1989.8	1338.1	759.7	715.4	695.9	688.2	689.2	698.1	726.1	714.3	708.2
35°	2097.2	1308.5	726.1	689.8	676.4	665.2	664.0	691.9	775.3	768.1	762.5
37.5°	2223.1	1278.8	692.6	660.7	661.8	649.4	645.5	677.4	784.8	756.3	752.4
40°	2383.1	1263.1	664.0	629.9	643.9	642.2	634.4	650.6	722.2	670.2	663.4
42.5°	2581.1	1265.3	642.8	596.9	622.7	640.5	628.2	628.8	654.5	615.3	609.2
45°	2825.6	1291.7	627.7	570.6	598.5	638.8	625.9	617.0	619.3	598.5	595.3
47.5°	3110.8	1346.0	617.0	548.8	575.6	632.7	625.4	613.7	608.7	597.4	594.7
50°	3428.0	1424.8	609.2	528.0	554.9	622.7	625.9	610.3	604.8	600.3	598.5
52.5°	3739.6	1514.9	597.4	510.1	538.7	610.3	627.7	606.9	600.8	597.4	595.8
55°	4087.1	1627.3	579.5	495.1	525.3	594.7	627.7	601.9	595.3	595.8	595.3
57.5°	4556.3	1809.2	558.4	482.2	509.0	575.6	617.0	596.3	588.0	588.5	589.0
60°	5289.8	2129.7	532.5	469.4	488.9	553.3	602.4	584.0	575.6	577.9	578.4
62.5°	6368.2	2600.2	499.0	450.3	467.6	529.3	582.4	568.3	560.0	565.5	565.5
65°	7489.2	3015.2	457.6	426.2	445.3	502.9	557.2	548.8	540.4	553.3	552.8
67.5°	7790.8	2922.3	416.2	400.0	423.0	473.8	526.9	522.5	518.0	540.4	539.3
70°	6921.0	2346.2	378.1	373.1	398.2	442.5	494.5	494.5	491.6	508.5	504.6
72.5°	5273.0	1663.7	341.8	344.6	370.3	408.4	459.3	463.2	458.7	467.1	463.7
75°	2822.7	952.0	305.5	313.2	335.7	373.6	420.1	424.0	421.2	420.6	422.4
77.5°	938.1	465.5	267.3	279.7	299.3	337.8	379.2	385.4	378.7	377.6	377.1
80°	417.9	292.6	225.4	241.7	259.1	297.0	336.2	341.2	334.0	344.0	331.2
82.5°	268.6	192.4	180.8	198.7	215.3	256.2	293.2	294.2	287.6	334.0	284.7
85°	130.3	119.2	135.9	152.2	166.7	201.4	242.8	243.3	226.6	206.4	199.2
87.5°	64.9	69.4	90.5	105.2	112.4	138.2	176.8	173.4	166.2	151.0	139.3
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)