

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: P193910

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193910
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-02-LED-E1-T2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9752 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

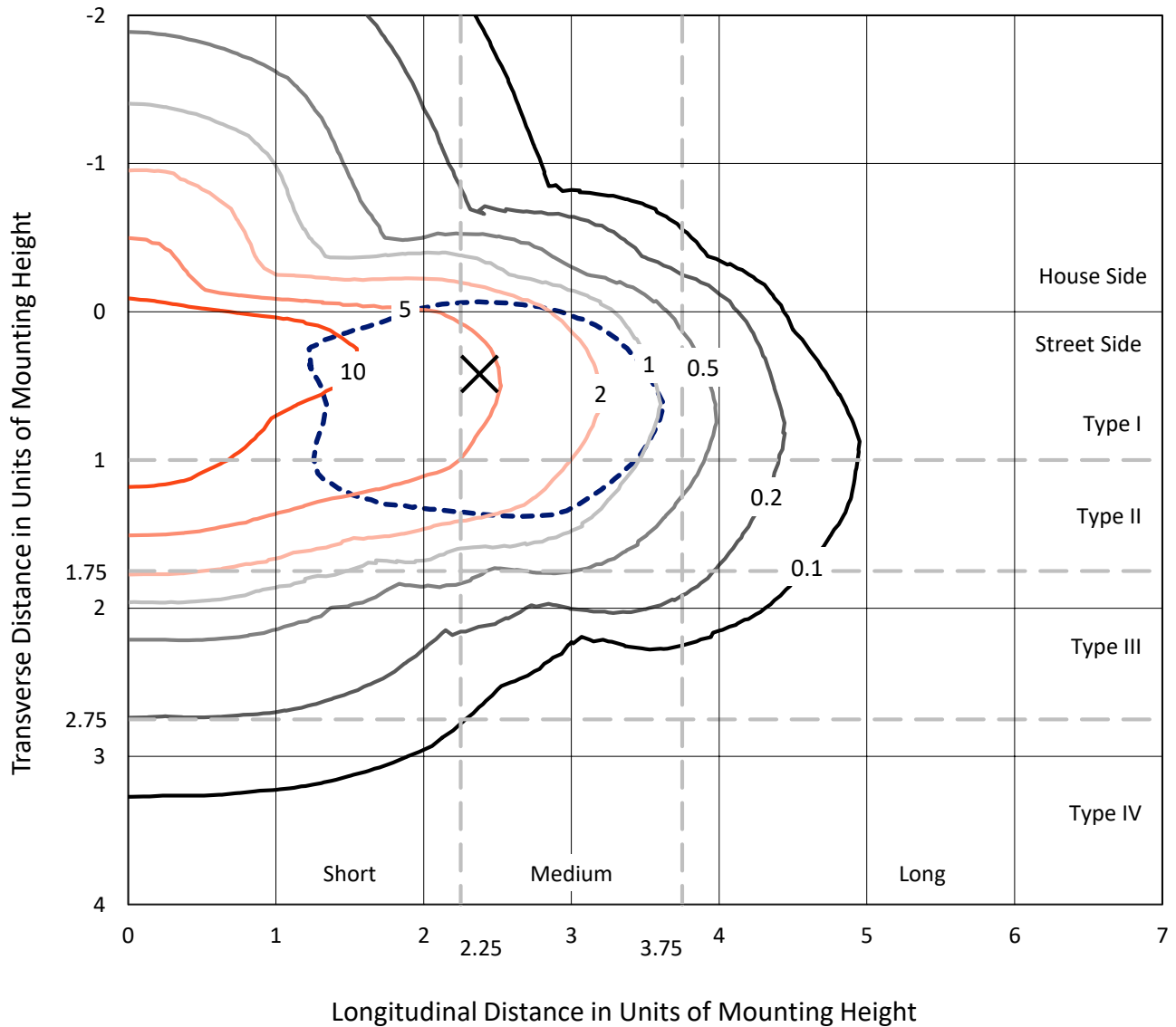


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

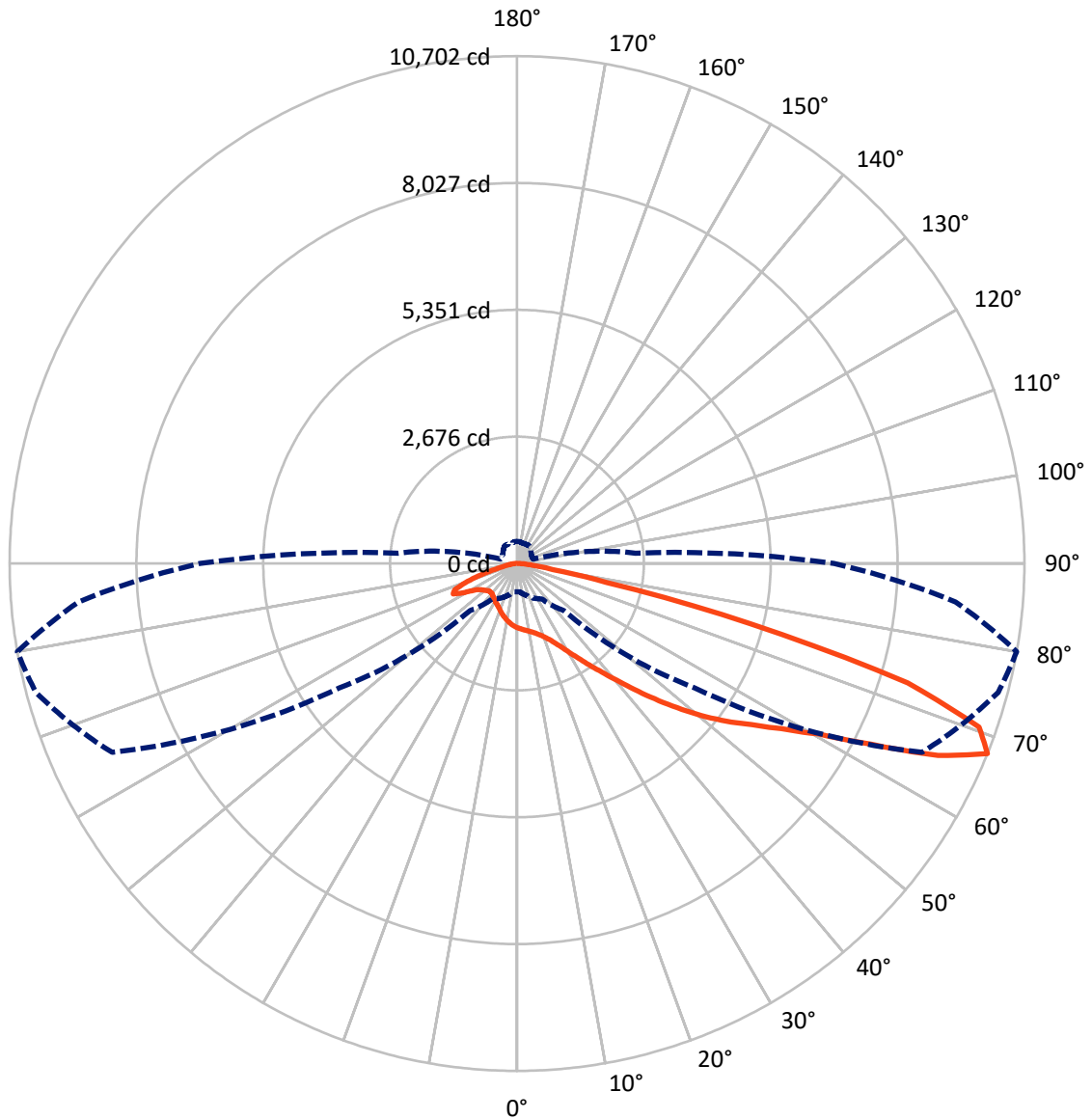


Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1795.9	0.0	1795.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	7956.1	0.0	7956.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	9752.0	0.0	9752.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.3
10°-20°	360.0	3.7
20°-30°	595.9	6.1
30°-40°	974.8	10.0
40°-50°	1573.9	16.1
50°-60°	2272.2	23.3
60°-70°	2507.5	25.7
70°-80°	1155.8	11.9
80°-90°	186.9	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°	9752.0	100.0
0°-180°	9752.0	100.0



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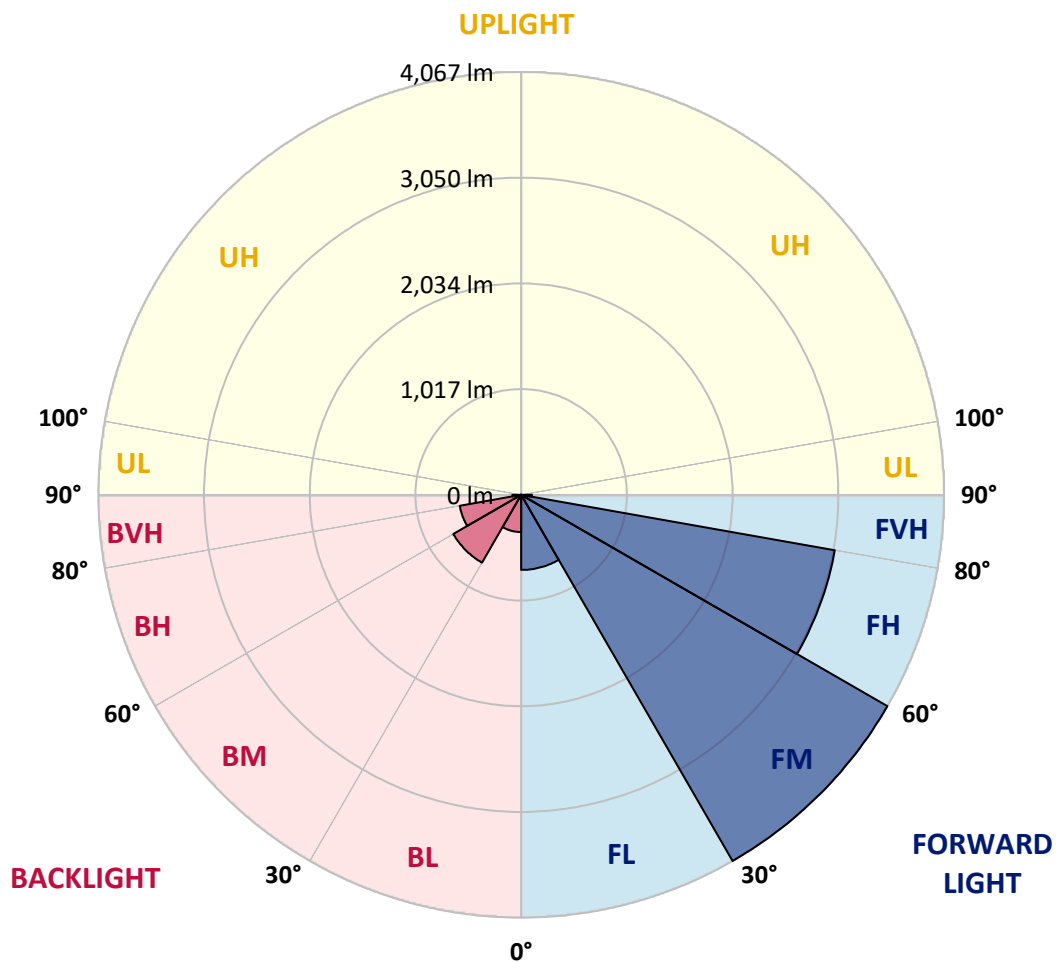
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.6	7.4			
FM (30°-60°)	4067.3	41.7			
FH (60°-80°)	3063.4	31.4			G2/5000
FVH (80°-90°)	102.8	1.1			G2/225
BL (0°-30°)	358.3	3.7	B1/500		
BM (30°-60°)	753.5	7.7	B1/1000		
BH (60°-80°)	600.0	6.2	B2/1000		G2/1000
BVH (80°-90°)	84.2	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°	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8
2.5°	1482.1	1473.4	1474.9	1472.5	1465.3	1452.8	1439.3	1414.8	1389.4	1376.0	1365.4
5°	1605.9	1603.5	1600.2	1592.5	1574.2	1548.3	1516.1	1472.9	1426.4	1401.9	1378.4
7.5°	1698.6	1697.1	1692.8	1688.0	1670.3	1639.1	1590.6	1529.1	1461.4	1427.8	1391.3
10°	1706.3	1708.7	1712.0	1725.0	1727.4	1710.6	1661.1	1586.7	1497.9	1454.7	1408.1
12.5°	1641.0	1646.3	1659.2	1692.3	1727.4	1748.0	1722.6	1647.2	1540.6	1488.3	1429.3
15°	1554.6	1557.4	1573.3	1618.9	1681.8	1745.6	1769.6	1713.9	1595.8	1531.5	1460.9
17.5°	1517.6	1519.0	1530.1	1560.3	1618.9	1710.1	1796.0	1786.4	1663.5	1585.3	1499.8
20°	1498.9	1502.2	1518.1	1547.8	1584.8	1664.5	1799.9	1864.7	1744.2	1652.5	1548.8
22.5°	1552.2	1550.7	1556.5	1571.4	1602.6	1650.6	1797.0	1945.4	1846.9	1738.9	1612.6
25°	1676.5	1681.8	1671.7	1654.9	1665.0	1698.6	1812.4	2032.7	1975.6	1849.8	1696.2
27.5°	1853.7	1848.4	1833.5	1794.1	1773.5	1787.9	1863.3	2126.8	2135.5	1995.8	1806.6
30°	2030.3	2026.0	2011.6	1963.6	1921.4	1909.3	1962.2	2234.9	2326.1	2171.0	1942.0
32.5°	2213.7	2208.9	2195.5	2147.5	2096.6	2068.7	2102.8	2359.7	2550.8	2380.3	2101.4
35°	2439.9	2430.7	2402.4	2335.7	2285.7	2264.1	2280.0	2516.7	2810.0	2628.1	2294.9
37.5°	2652.5	2666.5	2637.7	2545.5	2480.7	2473.0	2490.7	2708.2	3089.4	2905.1	2517.2
40°	2866.2	2868.6	2842.7	2767.3	2700.6	2688.1	2732.7	2940.6	3419.3	3236.3	2787.4
42.5°	3087.0	3091.8	3048.1	2978.5	2929.6	2932.0	2982.8	3212.8	3797.6	3626.7	3098.6
45°	3348.7	3355.9	3307.9	3216.7	3172.0	3261.8	3240.7	3518.2	4212.4	4070.3	3455.7
47.5°	3622.3	3633.4	3596.9	3511.4	3455.7	3579.1	3498.5	3856.6	4658.9	4546.0	3848.0
50°	3771.6	3787.5	3823.0	3816.8	3804.8	3784.1	3786.1	4219.6	5119.3	5041.5	4251.3
52.5°	3691.5	3691.0	3820.6	3978.1	4146.1	4158.6	4136.5	4602.2	5549.5	5525.9	4631.0
55°	3324.7	3349.6	3546.0	3850.9	4309.8	4596.5	4661.8	5040.5	5971.9	5999.3	5016.5
57.5°	2714.0	2734.6	2999.7	3424.5	4089.0	4856.7	5408.8	5677.6	6444.4	6572.1	5529.8
60°	1840.7	1865.7	2146.5	2656.9	3494.6	4711.7	6119.8	6814.5	7009.9	7300.4	6249.9
62.5°	1081.7	1104.2	1333.2	1676.0	2460.5	4038.1	6431.9	8432.0	7908.2	8399.3	7348.4
65°	744.6	760.0	871.4	1043.3	1413.9	2719.8	6044.9	9548.7	9290.4	9760.9	8622.1
67.5°	599.2	597.2	685.6	802.7	910.3	1402.4	4571.0	9422.4	10506.0	10702.3	9283.2
70°	493.5	491.6	551.6	648.6	727.3	789.8	2489.8	7951.4	10258.3	10337.9	8674.4
72.5°	412.9	414.8	453.2	525.2	596.8	594.8	1094.1	5593.6	8070.0	8621.1	6914.9
75°	348.6	349.5	375.0	425.8	484.4	479.1	593.4	3030.4	4691.0	5074.6	3833.1
77.5°	296.7	297.7	314.0	342.3	384.1	382.2	433.0	1309.2	1956.9	1932.9	1311.1
80°	264.5	264.5	272.2	277.5	300.5	291.9	321.2	628.9	827.2	763.8	523.3
82.5°	207.4	208.4	255.4	253.5	236.7	225.6	225.6	370.6	438.3	405.2	306.3
85°	116.7	116.2	164.7	198.8	208.4	158.9	157.5	207.4	238.6	210.3	148.4
87.5°	49.9	50.9	76.3	88.3	118.1	98.9	97.5	107.1	121.5	105.1	68.7
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°	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8	1354.8
2.5°	1355.3	1342.8	1315.5	1281.4	1250.7	1230.5	1212.2	1185.8	1187.3	1169.0	1155.6
5°	1354.4	1328.4	1265.1	1189.7	1117.2	1064.9	1025.5	990.0	981.3	964.5	954.4
7.5°	1355.3	1313.1	1206.5	1086.0	996.2	929.9	896.3	877.6	873.3	867.5	868.0
10°	1358.7	1299.1	1142.2	989.0	894.9	851.2	843.1	848.8	855.5	857.5	857.9
12.5°	1366.4	1286.7	1071.6	902.6	831.5	818.1	832.0	851.7	864.7	870.9	870.4
15°	1383.6	1277.1	1003.9	834.9	796.5	803.7	829.6	857.5	876.2	884.8	885.3
17.5°	1402.4	1263.1	934.3	783.0	770.6	788.8	821.0	853.6	876.7	886.3	888.2
20°	1426.9	1245.9	861.3	744.2	746.1	766.7	797.0	829.6	855.1	863.2	867.1
22.5°	1459.0	1227.1	797.4	712.5	718.2	734.1	757.6	785.9	808.0	811.8	815.2
25°	1502.2	1207.0	746.6	683.7	686.1	695.2	711.0	727.8	743.2	738.9	742.2
27.5°	1560.3	1189.7	708.6	657.3	652.9	654.9	663.0	668.3	676.5	664.5	665.9
30°	1628.5	1171.0	679.3	634.2	622.2	618.8	620.8	623.6	629.9	613.6	611.2
32.5°	1707.7	1148.4	652.0	614.0	597.2	590.5	591.5	599.2	623.2	613.1	607.8
35°	1799.9	1122.9	623.2	592.0	580.4	570.8	569.9	593.9	665.4	659.2	654.4
37.5°	1907.9	1097.5	594.4	567.0	568.0	557.4	554.0	581.4	673.6	649.1	645.7
40°	2045.2	1084.1	569.9	540.6	552.6	551.2	544.4	558.4	619.8	575.2	569.4
42.5°	2215.2	1086.0	551.6	512.3	534.3	549.7	539.2	539.6	561.7	528.1	522.8
45°	2425.0	1108.5	538.7	489.7	513.7	548.3	537.2	529.5	531.5	513.7	510.8
47.5°	2669.8	1155.1	529.5	471.0	494.0	543.0	536.7	526.7	522.3	512.7	510.3
50°	2942.0	1222.8	522.8	453.2	476.3	534.3	537.2	523.8	519.0	515.1	513.7
52.5°	3209.5	1300.1	512.7	437.8	462.3	523.8	538.7	520.9	515.6	512.7	511.3
55°	3507.6	1396.6	497.4	424.9	450.8	510.3	538.7	516.6	510.8	511.3	510.8
57.5°	3910.4	1552.6	479.1	413.8	436.9	494.0	529.5	511.8	504.6	505.1	505.5
60°	4539.8	1827.7	457.1	402.8	419.6	474.8	517.1	501.2	494.0	495.9	496.4
62.5°	5465.4	2231.5	428.2	386.5	401.4	454.2	499.8	487.8	480.6	485.4	485.4
65°	6427.6	2587.7	392.7	365.8	382.2	431.6	478.2	471.0	463.8	474.8	474.3
67.5°	6686.3	2508.0	357.2	343.3	363.0	406.6	452.3	448.4	444.6	463.8	462.8
70°	5939.8	2013.5	324.5	320.2	341.8	379.8	424.4	424.4	422.0	436.4	433.0
72.5°	4525.4	1427.8	293.3	295.7	317.8	350.5	394.2	397.5	393.7	400.9	398.0
75°	2422.6	817.1	262.1	268.9	288.1	320.7	360.6	363.9	361.5	361.0	362.5
77.5°	805.1	399.4	229.5	240.0	256.9	290.0	325.5	330.8	325.0	324.1	323.6
80°	358.6	251.1	193.5	207.4	222.3	254.9	288.5	292.9	286.6	295.3	284.2
82.5°	230.4	165.2	155.1	170.4	184.8	219.9	251.6	252.5	246.8	286.6	244.4
85°	111.9	102.3	116.7	130.6	143.1	172.8	208.4	208.8	194.4	177.2	170.9
87.5°	55.7	59.5	77.8	90.3	96.5	118.6	151.7	148.8	142.6	129.6	119.5
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)