

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: P193900

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193900
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-T2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7879 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

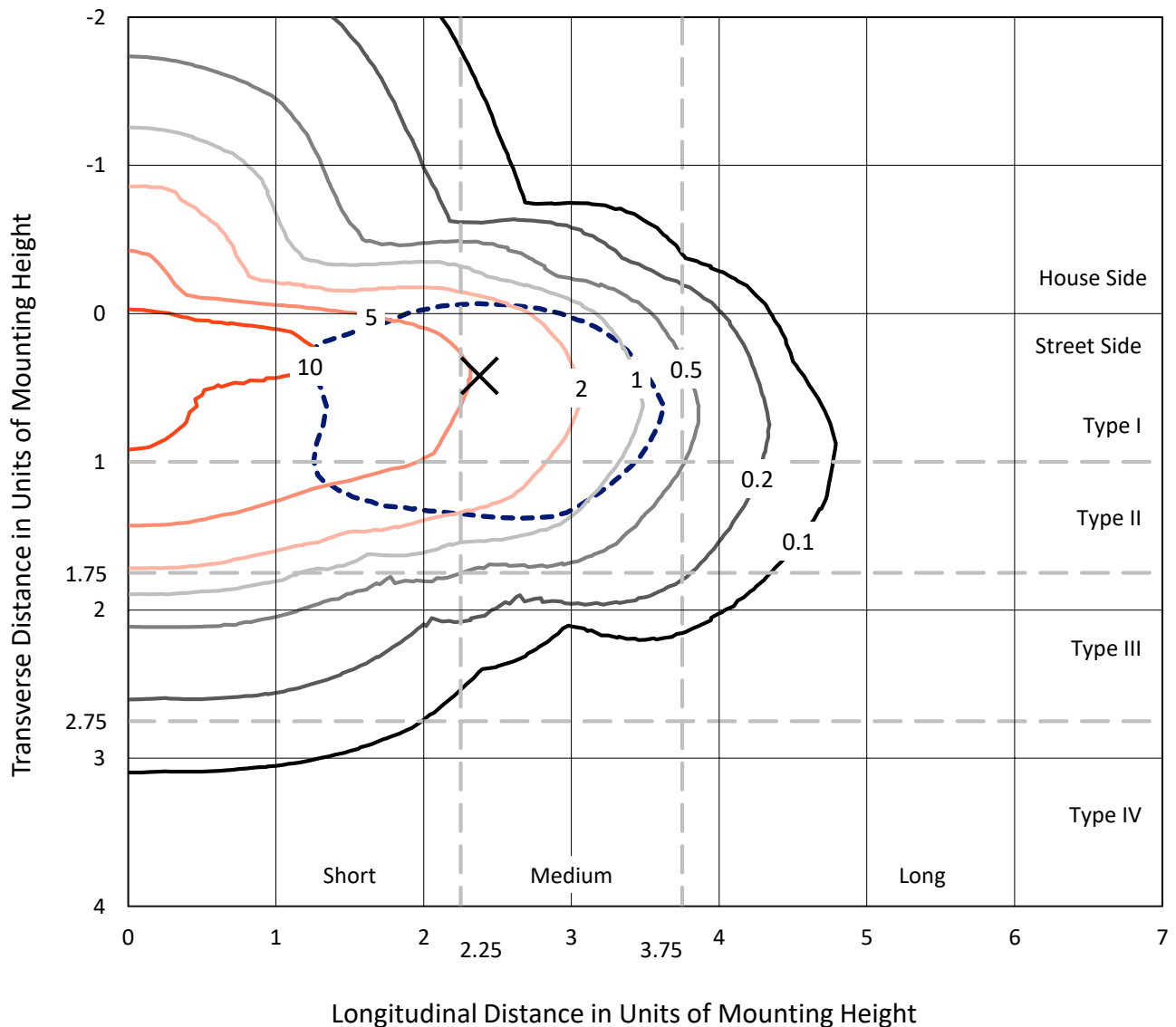
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

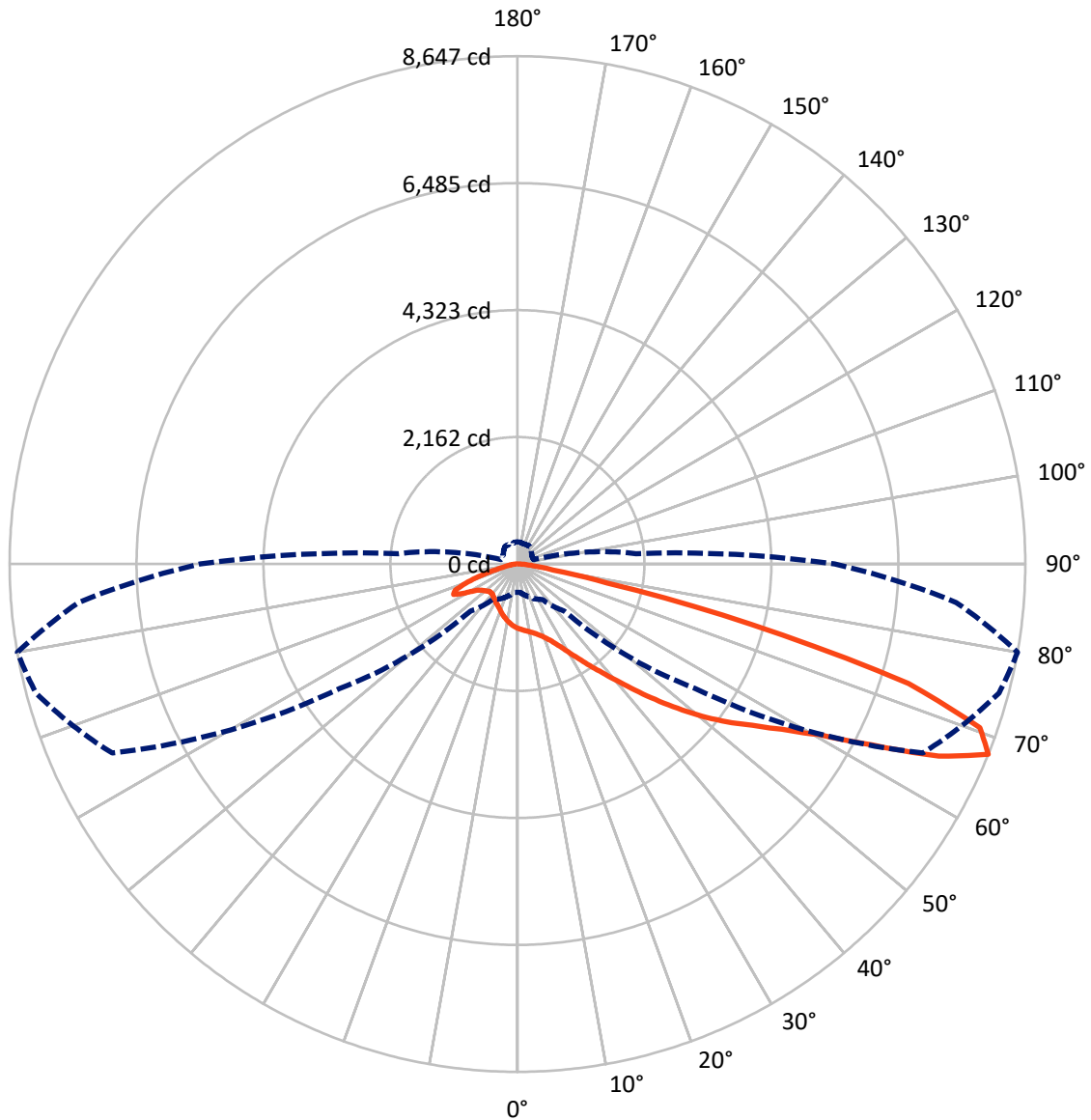
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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	1451.0	0.0	1451.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6428.0	0.0	6428.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	7879.0	0.0	7879.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.3
10°-20°	290.9	3.7
20°-30°	481.5	6.1
30°-40°	787.6	10.0
40°-50°	1271.6	16.1
50°-60°	1835.8	23.3
60°-70°	2025.9	25.7
70°-80°	933.8	11.9
80°-90°	151.0	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°	7879.0	100.0
0°-180°	7879.0	100.0



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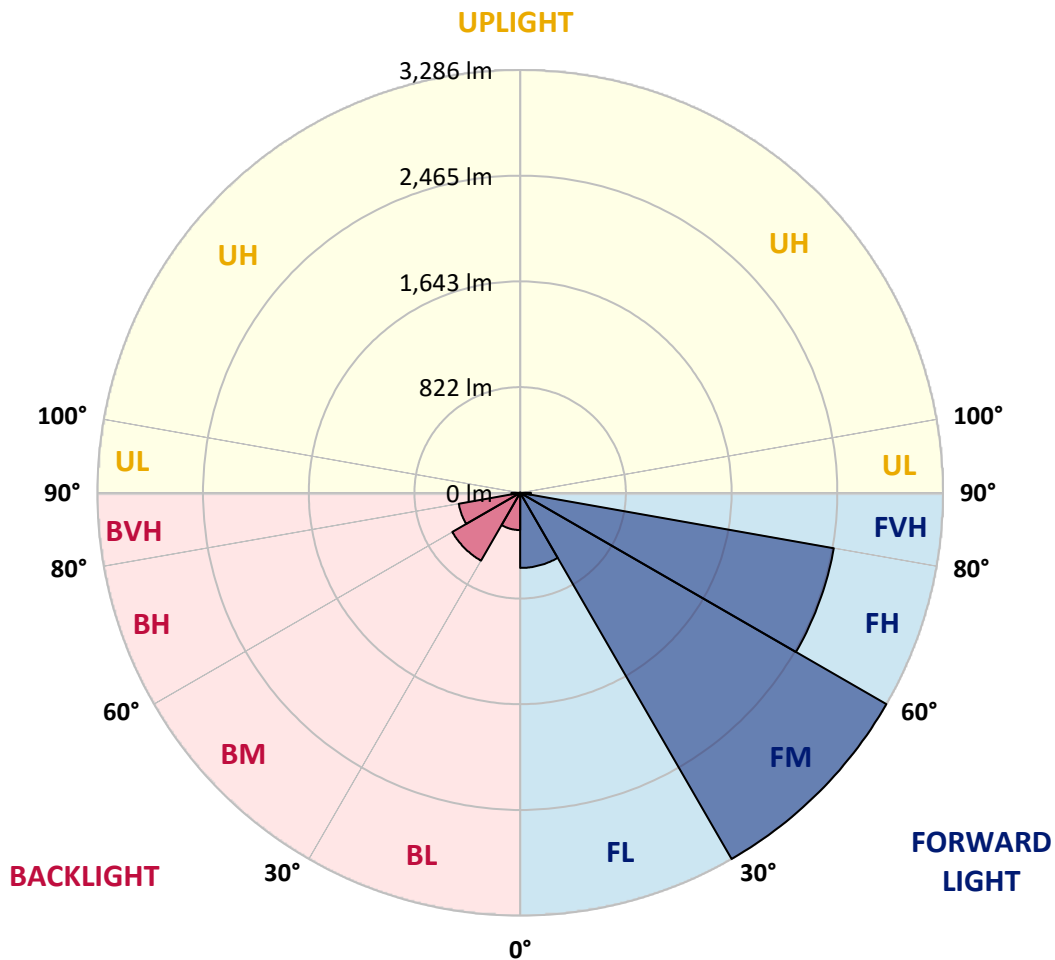
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.8	7.4			
FM (30°-60°)	3286.1	41.7			
FH (60°-80°)	2475.0	31.4			G2/5000
FVH (80°-90°)	83.0	1.1			G1/100
BL (0°-30°)	289.5	3.7	B1/500		
BM (30°-60°)	608.8	7.7	B1/1000		
BH (60°-80°)	484.7	6.2	B1/500		G1/500
BVH (80°-90°)	68.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6
2.5°	1197.4	1190.4	1191.6	1189.7	1183.8	1173.8	1162.9	1143.1	1122.6	1111.7	1103.2
5°	1297.5	1295.5	1292.8	1286.6	1271.9	1250.9	1225.0	1190.0	1152.4	1132.6	1113.6
7.5°	1372.4	1371.2	1367.7	1363.8	1349.5	1324.3	1285.1	1235.4	1180.7	1153.6	1124.1
10°	1378.6	1380.5	1383.2	1393.7	1395.6	1382.0	1342.1	1282.0	1210.2	1175.3	1137.7
12.5°	1325.8	1330.1	1340.5	1367.3	1395.6	1412.3	1391.7	1330.8	1244.7	1202.5	1154.7
15°	1256.0	1258.3	1271.1	1308.0	1358.8	1410.4	1429.8	1384.8	1289.3	1237.4	1180.3
17.5°	1226.1	1227.3	1236.2	1260.6	1308.0	1381.7	1451.1	1443.3	1344.0	1280.8	1211.8
20°	1211.0	1213.7	1226.5	1250.6	1280.4	1344.8	1454.2	1506.6	1409.2	1335.1	1251.3
22.5°	1254.0	1252.9	1257.5	1269.6	1294.8	1333.6	1451.9	1571.7	1492.2	1404.9	1302.9
25°	1354.5	1358.8	1350.6	1337.1	1345.2	1372.4	1464.3	1642.3	1596.2	1494.5	1370.4
27.5°	1497.6	1493.4	1481.3	1449.5	1432.9	1444.5	1505.4	1718.3	1725.3	1612.5	1459.6
30°	1640.4	1636.9	1625.3	1586.5	1552.3	1542.6	1585.3	1805.6	1879.3	1754.0	1569.0
32.5°	1788.6	1784.7	1773.8	1735.0	1693.9	1671.4	1699.0	1906.5	2060.9	1923.2	1697.8
35°	1971.3	1963.9	1941.0	1887.1	1846.7	1829.3	1842.1	2033.3	2270.3	2123.3	1854.1
37.5°	2143.1	2154.3	2131.1	2056.6	2004.2	1998.0	2012.4	2188.1	2496.1	2347.1	2033.7
40°	2315.7	2317.6	2296.7	2235.8	2181.9	2171.8	2207.9	2375.8	2762.5	2614.8	2252.1
42.5°	2494.1	2498.0	2462.7	2406.5	2366.9	2368.8	2410.0	2595.8	3068.2	2930.1	2503.4
45°	2705.5	2711.3	2672.6	2598.9	2562.8	2635.3	2618.2	2842.4	3403.3	3288.5	2792.0
47.5°	2926.6	2935.5	2906.1	2837.0	2792.0	2891.7	2826.5	3115.9	3764.1	3672.9	3108.9
50°	3047.3	3060.1	3088.8	3083.7	3074.0	3057.3	3058.9	3409.2	4136.1	4073.2	3434.8
52.5°	2982.5	2982.1	3086.8	3214.0	3349.8	3359.9	3342.1	3718.3	4483.6	4464.6	3741.6
55°	2686.1	2706.3	2864.9	3111.3	3482.1	3713.6	3766.4	4072.4	4824.9	4847.1	4053.1
57.5°	2192.7	2209.4	2423.5	2766.8	3303.6	3923.9	4370.0	4587.2	5206.6	5309.8	4467.7
60°	1487.2	1507.3	1734.3	2146.6	2823.4	3806.7	4944.4	5505.7	5663.6	5898.2	5049.5
62.5°	873.9	892.1	1077.2	1354.1	1987.9	3262.5	5196.5	6812.5	6389.3	6786.1	5937.0
65°	601.6	614.0	704.0	842.9	1142.3	2197.4	4883.9	7714.7	7506.0	7886.2	6966.1
67.5°	484.1	482.5	553.9	648.6	735.4	1133.0	3693.1	7612.7	8488.2	8646.8	7500.2
70°	398.7	397.2	445.7	524.0	587.7	638.1	2011.6	6424.2	8288.0	8352.4	7008.4
72.5°	333.6	335.1	366.2	424.4	482.1	480.6	884.0	4519.3	6520.0	6965.3	5586.8
75°	281.6	282.4	302.9	344.1	391.4	387.1	479.4	2448.4	3790.1	4100.0	3096.9
77.5°	239.7	240.5	253.7	276.6	310.3	308.8	349.9	1057.8	1581.0	1561.6	1059.3
80°	213.7	213.7	219.9	224.2	242.8	235.8	259.5	508.1	668.3	617.1	422.8
82.5°	167.6	168.3	206.4	204.8	191.2	182.3	182.3	299.5	354.1	327.4	247.5
85°	94.3	93.9	133.0	160.6	168.3	128.4	127.2	167.6	192.8	169.9	119.9
87.5°	40.3	41.1	61.7	71.4	95.4	79.9	78.7	86.5	98.1	84.9	55.5
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°	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6
2.5°	1095.0	1084.9	1062.8	1035.3	1010.5	994.2	979.4	958.1	959.2	944.5	933.6
5°	1094.2	1073.3	1022.1	961.2	902.6	860.3	828.5	799.8	792.8	779.3	771.1
7.5°	1095.0	1060.9	974.8	877.4	804.9	751.3	724.2	709.1	705.6	700.9	701.3
10°	1097.7	1049.6	922.8	799.1	723.0	687.7	681.1	685.8	691.2	692.8	693.2
12.5°	1103.9	1039.5	865.8	729.2	671.8	661.0	672.2	688.1	698.6	703.6	703.2
15°	1117.9	1031.8	811.1	674.5	643.5	649.3	670.3	692.8	707.9	714.9	715.3
17.5°	1133.0	1020.5	754.8	632.6	622.6	637.3	663.3	689.7	708.3	716.0	717.6
20°	1152.8	1006.6	695.9	601.2	602.8	619.5	643.9	670.3	690.8	697.4	700.5
22.5°	1178.8	991.4	644.3	575.6	580.3	593.1	612.1	635.0	652.8	655.9	658.6
25°	1213.7	975.2	603.2	552.4	554.3	561.7	574.5	588.0	600.5	597.0	599.7
27.5°	1260.6	961.2	572.5	531.0	527.5	529.1	535.7	539.9	546.5	536.8	538.0
30°	1315.7	946.1	548.9	512.4	502.7	500.0	501.5	503.9	508.9	495.7	493.8
32.5°	1379.7	927.8	526.8	496.1	482.5	477.1	477.9	484.1	503.5	495.3	491.1
35°	1454.2	907.3	503.5	478.3	469.0	461.2	460.4	479.8	537.6	532.6	528.7
37.5°	1541.5	886.7	480.2	458.1	458.9	450.3	447.6	469.7	544.2	524.4	521.7
40°	1652.4	875.9	460.4	436.8	446.5	445.3	439.9	451.1	500.8	464.7	460.0
42.5°	1789.7	877.4	445.7	413.9	431.7	444.1	435.6	436.0	453.8	426.7	422.4
45°	1959.2	895.6	435.2	395.6	415.0	443.0	434.0	427.8	429.4	415.0	412.7
47.5°	2157.0	933.3	427.8	380.5	399.1	438.7	433.7	425.5	422.0	414.3	412.3
50°	2377.0	988.0	422.4	366.2	384.8	431.7	434.0	423.2	419.3	416.2	415.0
52.5°	2593.0	1050.4	414.3	353.8	373.5	423.2	435.2	420.9	416.6	414.3	413.1
55°	2833.9	1128.4	401.9	343.3	364.2	412.3	435.2	417.4	412.7	413.1	412.7
57.5°	3159.4	1254.4	387.1	334.4	353.0	399.1	427.8	413.5	407.7	408.1	408.4
60°	3667.9	1476.7	369.3	325.4	339.0	383.6	417.8	405.0	399.1	400.7	401.1
62.5°	4415.7	1802.9	346.0	312.3	324.3	366.9	403.8	394.1	388.3	392.2	392.2
65°	5193.1	2090.7	317.3	295.6	308.8	348.7	386.3	380.5	374.7	383.6	383.2
67.5°	5402.1	2026.3	288.6	277.3	293.2	328.5	365.4	362.3	359.2	374.7	373.9
70°	4799.0	1626.8	262.2	258.7	276.2	306.8	342.9	342.9	341.0	352.6	349.9
72.5°	3656.2	1153.6	237.0	238.9	256.8	283.2	318.5	321.2	318.1	323.9	321.6
75°	1957.3	660.2	211.8	217.2	232.7	259.1	291.3	294.0	292.1	291.7	292.9
77.5°	650.5	322.7	185.4	193.9	207.5	234.3	263.0	267.3	262.6	261.8	261.4
80°	289.8	202.9	156.3	167.6	179.6	206.0	233.1	236.6	231.6	238.6	229.6
82.5°	186.2	133.4	125.3	137.7	149.3	177.7	203.3	204.0	199.4	231.6	197.4
85°	90.4	82.6	94.3	105.5	115.6	139.6	168.3	168.7	157.1	143.1	138.1
87.5°	45.0	48.1	62.8	72.9	78.0	95.8	122.6	120.2	115.2	104.7	96.6
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)