

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: P191350

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191350
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-T2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8054.7 lumens
Efficiency: N/A
Efficacy: 122.0 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

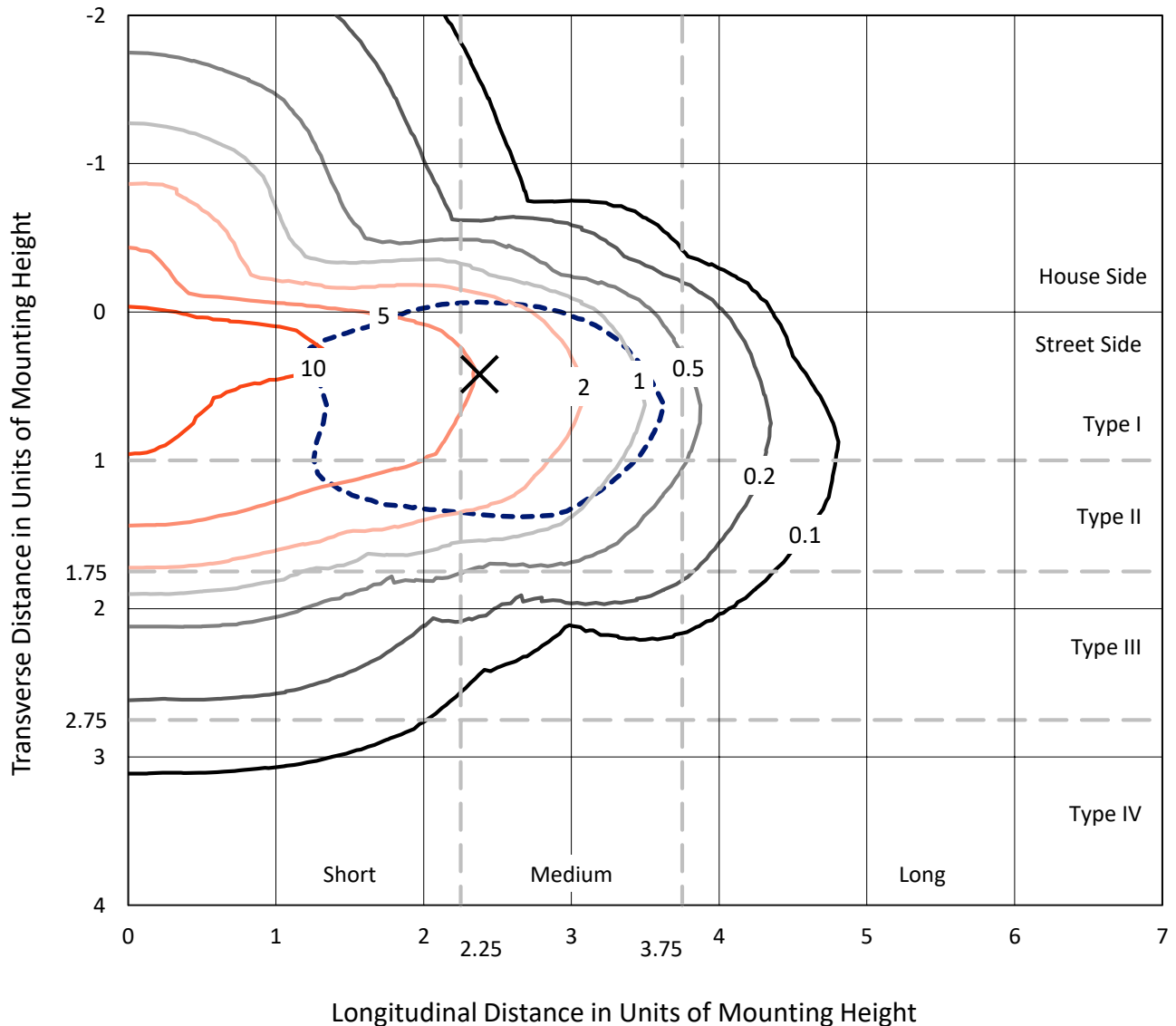
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

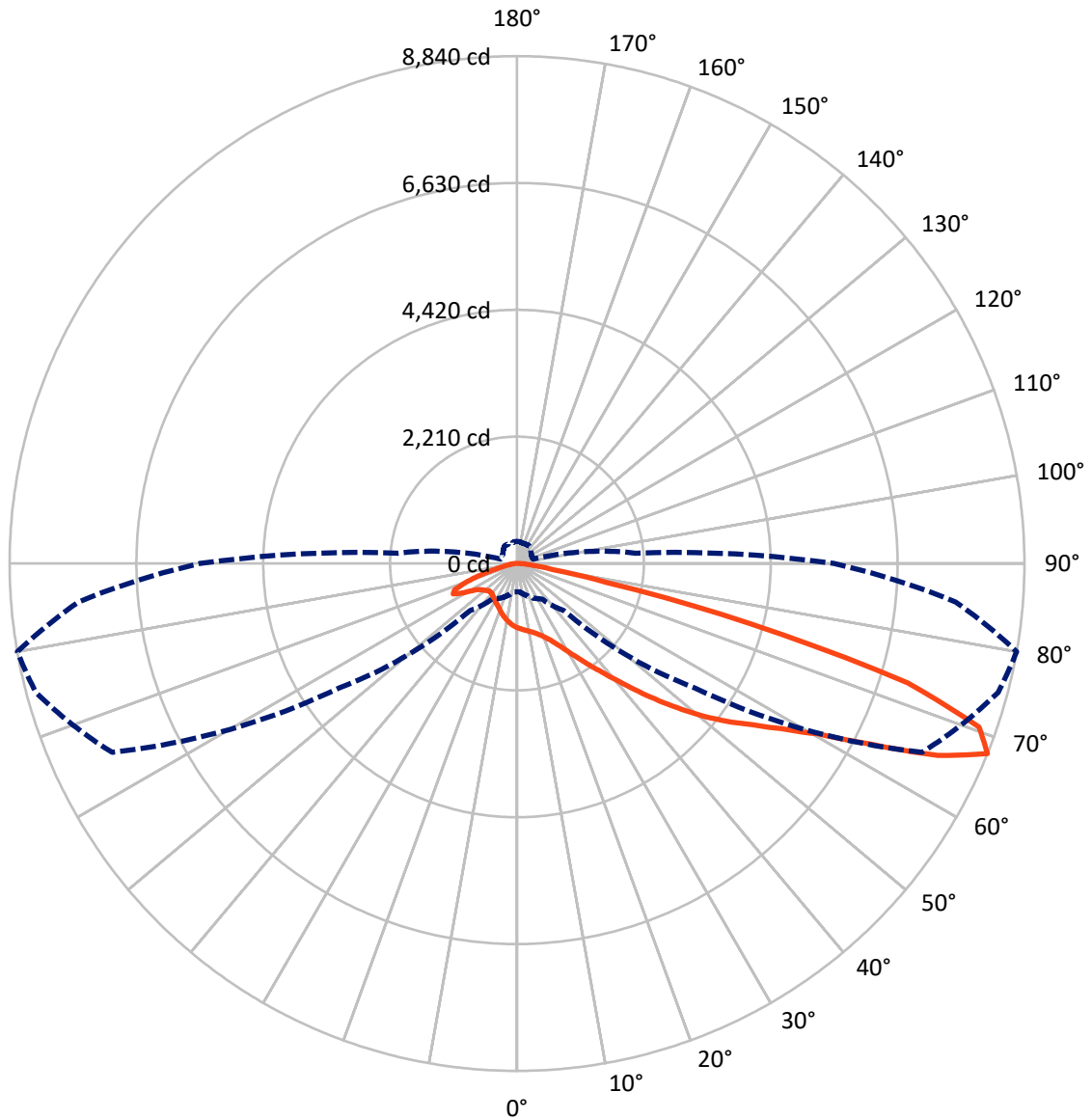
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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	1483.4	0.0	1483.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6571.4	0.0	6571.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	8054.7	0.0	8054.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	1.3
10°-20°	297.4	3.7
20°-30°	492.2	6.1
30°-40°	805.1	10.0
40°-50°	1299.9	16.1
50°-60°	1876.7	23.3
60°-70°	2071.1	25.7
70°-80°	954.6	11.9
80°-90°	154.4	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°	8054.7	100.0
0°-180°	8054.7	100.0



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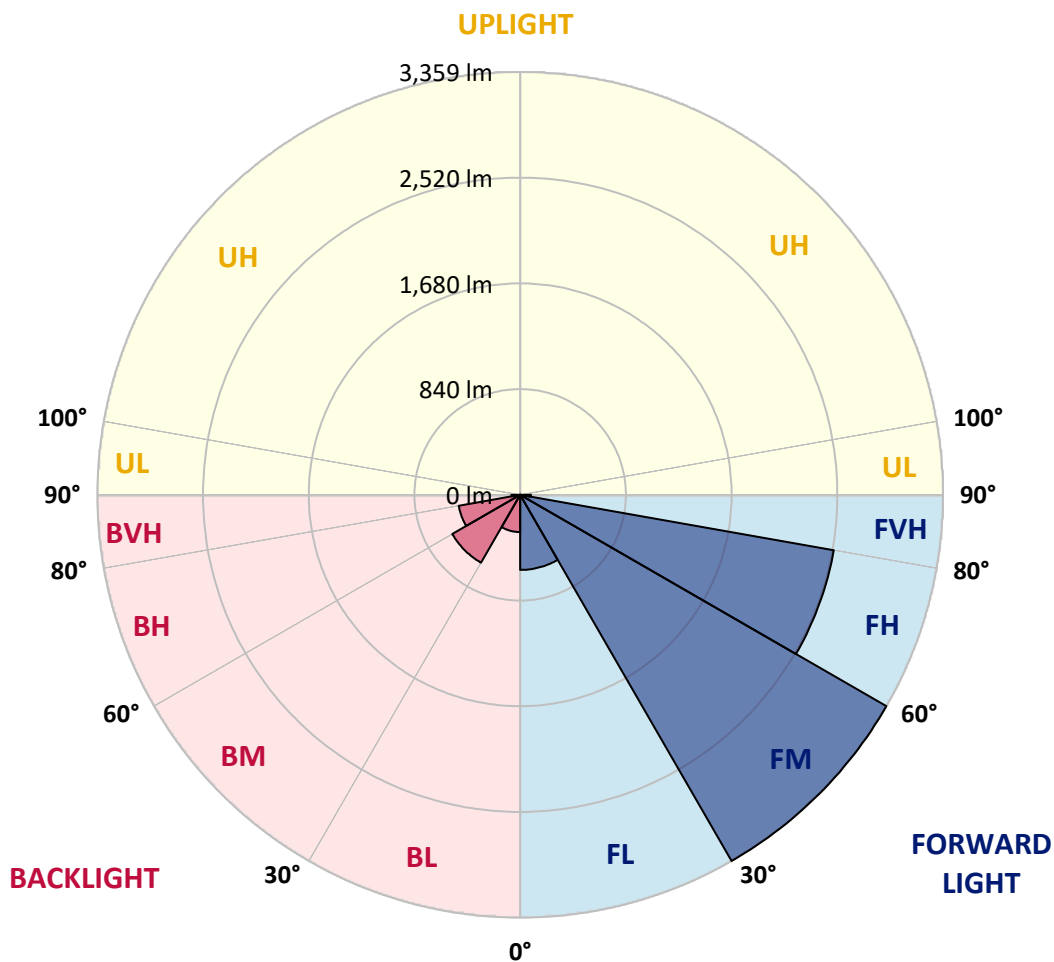
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.8	7.4			
FM (30°-60°)	3359.4	41.7			
FH (60°-80°)	2530.2	31.4			G2/5000
FVH (80°-90°)	84.9	1.1			G1/100
BL (0°-30°)	296.0	3.7	B1/500		
BM (30°-60°)	622.4	7.7	B1/1000		
BH (60°-80°)	495.5	6.2	B1/500		G1/500
BVH (80°-90°)	69.5	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°	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1224.2	1217.0	1218.1	1216.2	1210.3	1199.9	1188.9	1168.6	1147.5	1136.5	1127.8
5°	1326.5	1324.4	1321.7	1315.3	1300.3	1278.8	1252.3	1216.6	1178.1	1157.9	1138.4
7.5°	1403.0	1401.7	1398.2	1394.3	1379.6	1353.8	1313.8	1262.9	1207.1	1179.3	1149.2
10°	1409.3	1411.3	1414.0	1424.8	1426.7	1412.9	1372.0	1310.6	1237.2	1201.6	1163.1
12.5°	1355.4	1359.7	1370.4	1397.8	1426.7	1443.8	1422.8	1360.5	1272.4	1229.3	1180.5
15°	1284.0	1286.4	1299.5	1337.1	1389.1	1441.8	1461.7	1415.7	1318.1	1265.0	1206.7
17.5°	1253.4	1254.6	1263.8	1288.7	1337.1	1412.5	1483.5	1475.5	1374.0	1309.4	1238.8
20°	1238.0	1240.7	1253.8	1278.5	1309.0	1374.8	1486.7	1540.2	1440.6	1364.9	1279.2
22.5°	1282.0	1280.8	1285.5	1297.9	1323.7	1363.3	1484.2	1606.7	1525.5	1436.2	1332.0
25°	1384.7	1389.1	1380.8	1366.9	1375.2	1403.0	1497.0	1679.0	1631.7	1527.9	1400.9
27.5°	1531.1	1526.7	1514.4	1481.8	1464.9	1476.7	1538.9	1756.7	1763.8	1648.4	1492.2
30°	1676.9	1673.4	1661.5	1621.9	1586.9	1577.1	1620.7	1845.9	1921.2	1793.1	1604.0
32.5°	1828.4	1824.4	1813.4	1773.7	1731.7	1708.7	1736.9	1949.0	2106.8	1966.0	1735.6
35°	2015.2	2007.6	1984.3	1929.2	1888.0	1870.1	1883.2	2078.6	2321.0	2170.7	1895.4
37.5°	2190.9	2202.4	2178.6	2102.5	2048.9	2042.5	2057.3	2236.9	2551.8	2399.4	2079.0
40°	2367.3	2369.4	2347.9	2285.7	2230.5	2220.2	2257.1	2428.8	2824.2	2673.1	2302.4
42.5°	2549.7	2553.7	2517.6	2460.1	2419.7	2421.6	2463.7	2653.6	3136.7	2995.5	2559.2
45°	2765.9	2771.8	2732.2	2656.8	2620.0	2694.0	2676.7	2905.8	3479.3	3361.8	2854.3
47.5°	2991.9	3001.0	2970.9	2900.3	2854.3	2956.2	2889.6	3185.4	3848.0	3754.8	3178.3
50°	3115.2	3128.3	3157.6	3152.5	3142.6	3125.5	3127.2	3485.2	4228.3	4164.0	3511.4
52.5°	3049.0	3048.6	3155.7	3285.7	3424.5	3434.9	3416.6	3801.2	4583.6	4564.2	3825.0
55°	2746.0	2766.7	2928.8	3180.7	3559.8	3796.5	3850.4	4163.3	4932.6	4955.2	4143.5
57.5°	2241.6	2258.7	2477.6	2828.6	3377.4	4011.4	4467.4	4689.5	5322.7	5428.2	4567.4
60°	1520.3	1541.0	1773.0	2194.4	2886.5	3891.6	5054.7	5628.5	5789.9	6029.8	5162.1
62.5°	893.4	912.1	1101.2	1384.4	2032.3	3335.3	5312.4	6964.5	6531.8	6937.4	6069.5
65°	615.0	627.7	719.7	861.6	1167.8	2246.4	4992.8	7886.7	7673.5	8062.1	7121.5
67.5°	494.9	493.3	566.3	663.0	751.9	1158.3	3775.4	7782.5	8677.5	8839.6	7667.5
70°	407.6	406.0	455.6	535.7	600.8	652.3	2056.4	6567.4	8472.9	8538.7	7164.6
72.5°	341.1	342.6	374.3	433.8	492.9	491.3	903.7	4620.1	6665.4	7120.7	5711.3
75°	287.9	288.7	309.6	351.7	400.1	395.8	490.1	2503.0	3874.6	4191.4	3165.9
77.5°	245.1	245.8	259.3	282.7	317.2	315.7	357.7	1081.4	1616.3	1596.4	1083.0
80°	218.5	218.5	224.8	229.2	248.3	241.1	265.3	519.5	683.2	630.9	432.2
82.5°	171.3	172.1	210.9	209.4	195.5	186.4	186.4	306.2	362.0	334.7	253.0
85°	96.4	96.0	136.1	164.2	172.1	131.2	130.0	171.3	197.1	173.7	122.5
87.5°	41.2	42.0	63.0	72.9	97.6	81.7	80.5	88.4	100.4	86.8	56.7
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°	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1119.4	1109.1	1086.5	1058.3	1033.0	1016.3	1001.3	979.5	980.6	965.6	954.5
5°	1118.6	1097.2	1044.8	982.6	922.7	879.5	847.0	817.6	810.5	796.7	788.3
7.5°	1119.4	1084.5	996.5	896.9	822.9	768.1	740.3	724.9	721.3	716.6	717.0
10°	1122.2	1073.1	943.4	816.8	739.2	703.1	696.3	701.1	706.7	708.2	708.6
12.5°	1128.5	1062.7	885.1	745.5	686.8	675.7	687.2	703.5	714.1	719.3	718.9
15°	1142.8	1054.8	829.2	689.6	657.9	663.8	685.2	708.2	723.6	730.8	731.2
17.5°	1158.3	1043.3	771.7	646.7	636.5	651.5	678.1	705.0	724.0	732.0	733.6
20°	1178.5	1029.0	711.4	614.6	616.2	633.3	658.3	685.2	706.2	713.0	716.2
22.5°	1205.0	1013.5	658.7	588.5	593.2	606.3	625.7	649.2	667.4	670.5	673.3
25°	1240.7	996.9	616.6	564.7	566.6	574.2	587.3	601.2	613.9	610.3	613.1
27.5°	1288.7	982.6	585.3	542.9	539.3	540.8	547.6	552.0	558.7	548.8	550.0
30°	1345.1	967.2	561.1	523.9	513.9	511.2	512.7	515.1	520.3	506.8	504.8
32.5°	1410.4	948.5	538.5	507.2	493.3	487.7	488.6	494.9	514.7	506.4	502.1
35°	1486.7	927.5	514.7	489.0	479.5	471.5	470.7	490.5	549.6	544.4	540.5
37.5°	1575.9	906.5	490.9	468.3	469.1	460.4	457.6	480.2	556.4	536.1	533.4
40°	1689.3	895.4	470.7	446.5	456.4	455.2	449.7	461.1	511.9	475.1	470.3
42.5°	1829.6	896.9	455.6	423.1	441.3	454.1	445.3	445.7	463.9	436.2	431.8
45°	2002.9	915.6	444.9	404.5	424.3	452.9	443.8	437.4	438.9	424.3	422.0
47.5°	2205.2	954.1	437.4	389.0	408.1	448.5	443.3	435.0	431.5	423.5	421.6
50°	2430.0	1010.0	431.8	374.3	393.3	441.3	443.8	432.6	428.6	425.4	424.3
52.5°	2650.9	1073.8	423.5	361.6	381.9	432.6	444.9	430.3	425.9	423.5	422.3
55°	2897.1	1153.6	410.8	351.0	372.4	421.6	444.9	426.7	422.0	422.3	422.0
57.5°	3229.8	1282.4	395.8	341.8	360.9	408.1	437.4	422.7	416.8	417.2	417.6
60°	3749.6	1509.7	377.5	332.7	346.6	392.2	427.1	414.0	408.1	409.6	410.0
62.5°	4514.2	1843.2	353.7	319.3	331.5	375.1	412.8	402.8	396.9	400.9	400.9
65°	5308.9	2137.4	324.4	302.2	315.7	356.5	395.0	389.0	383.1	392.2	391.8
67.5°	5522.6	2071.5	295.0	283.6	299.8	335.8	373.6	370.4	367.2	383.1	382.3
70°	4906.0	1663.1	268.0	264.5	282.3	313.6	350.6	350.6	348.5	360.5	357.7
72.5°	3737.8	1179.3	242.2	244.3	262.5	289.5	325.6	328.4	325.2	331.1	328.8
75°	2000.9	674.9	216.6	222.1	237.9	264.8	297.8	300.5	298.6	298.2	299.4
77.5°	665.0	329.9	189.6	198.2	212.2	239.5	268.8	273.2	268.4	267.7	267.3
80°	296.2	207.4	159.8	171.3	183.6	210.5	238.3	241.9	236.7	243.9	234.8
82.5°	190.4	136.4	128.1	140.8	152.6	181.6	207.8	208.6	203.8	236.7	201.8
85°	92.4	84.5	96.4	107.8	118.2	142.8	172.1	172.5	160.6	146.3	141.2
87.5°	46.0	49.2	64.2	74.6	79.7	97.9	125.3	123.0	117.7	107.1	98.7
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)