

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: P200012

Luminaire Tested: **GPC-AF-02-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200012
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: GPC-AF-02-LED-E1-T2-7030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 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: 7767.2 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

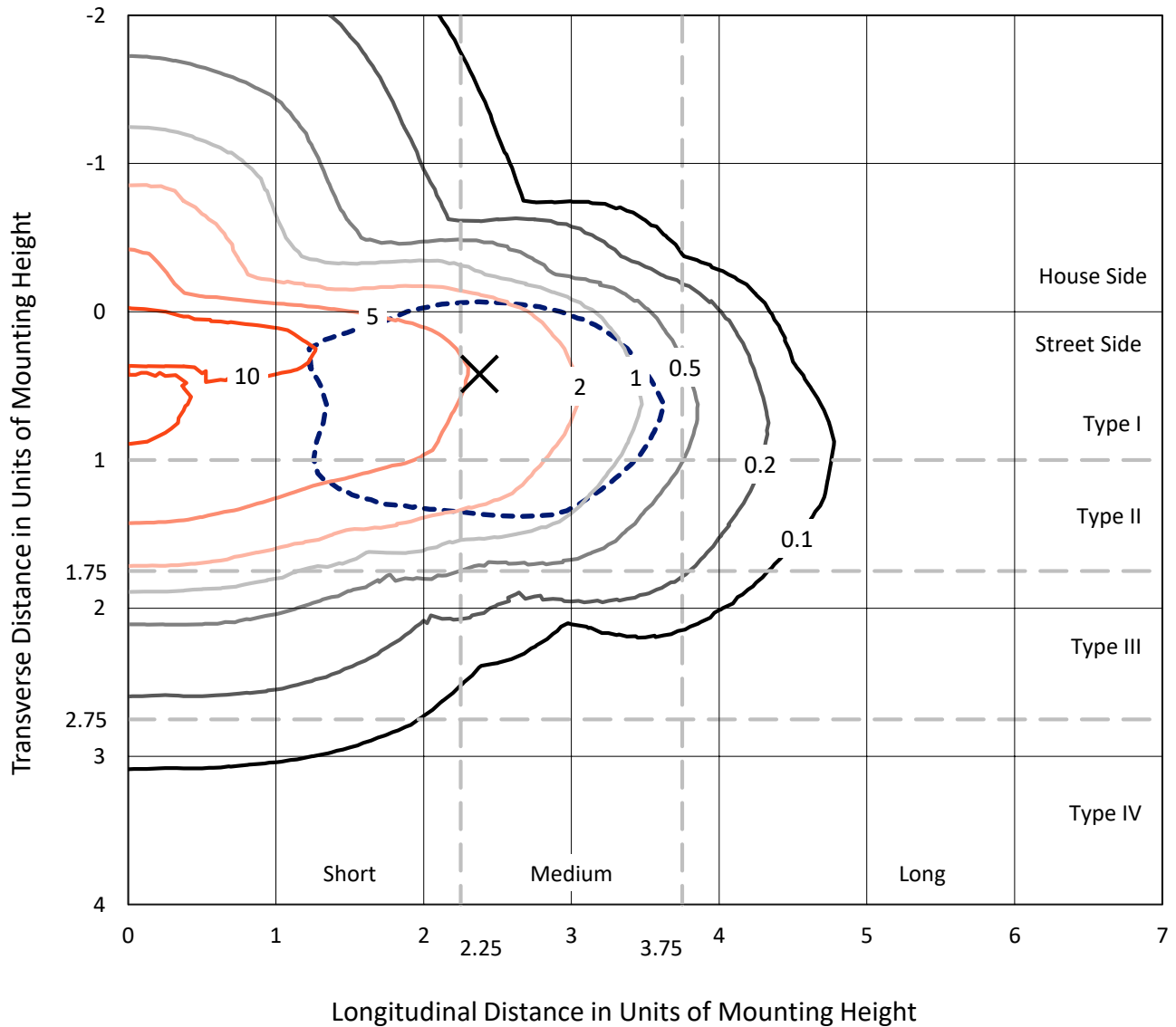
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

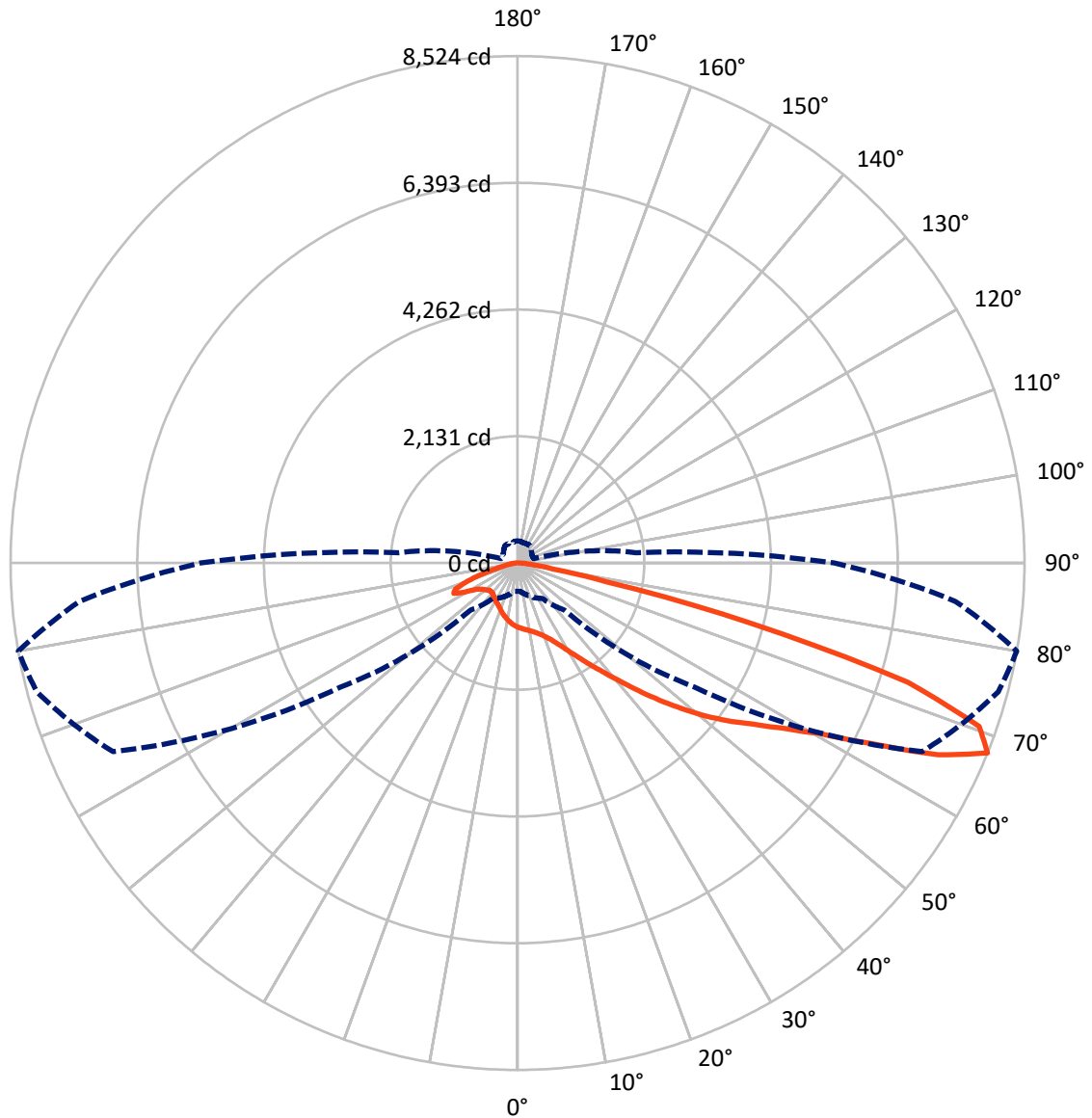
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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	1430.4	0.0	1430.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6336.8	0.0	6336.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	7767.2	0.0	7767.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.3
10°-20°	286.8	3.7
20°-30°	474.6	6.1
30°-40°	776.4	10.0
40°-50°	1253.5	16.1
50°-60°	1809.8	23.3
60°-70°	1997.2	25.7
70°-80°	920.6	11.9
80°-90°	148.9	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°	7767.2	100.0
0°-180°	7767.2	100.0



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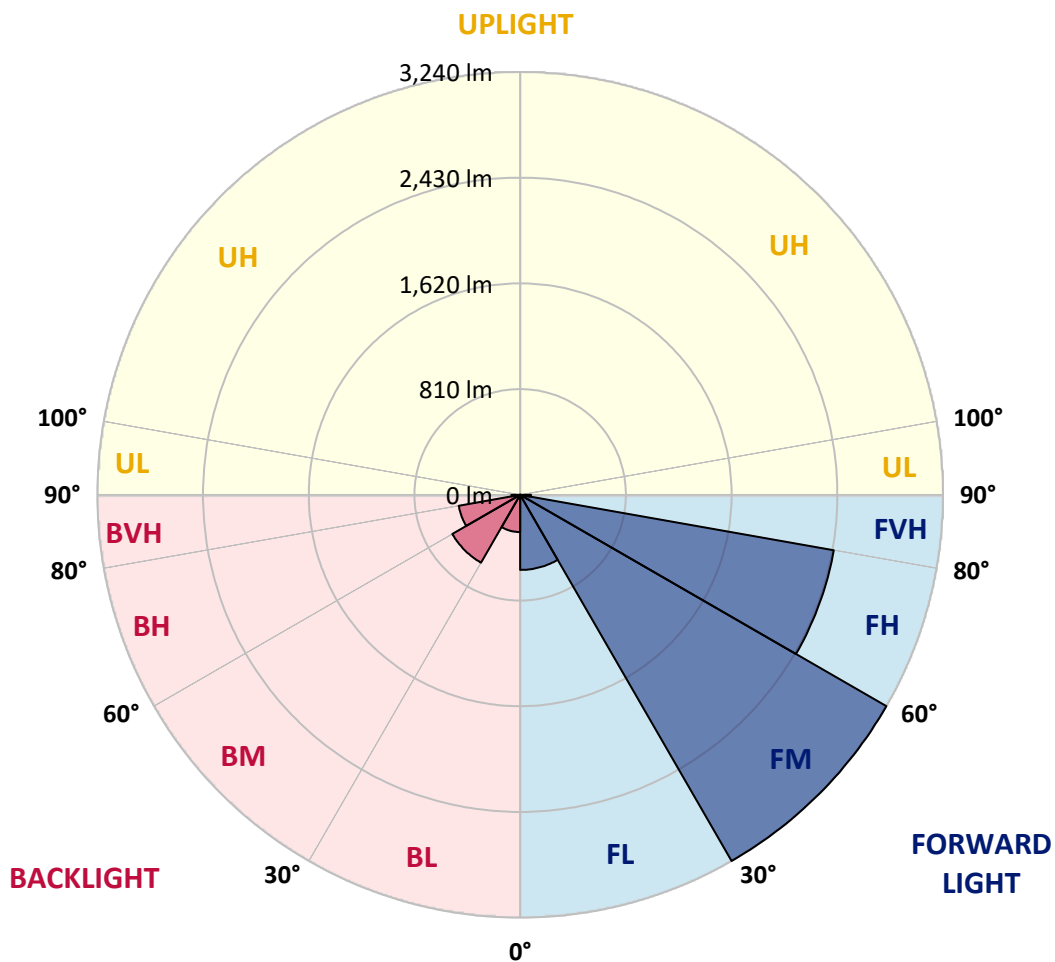
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.5	7.4			
FM	(30°-60°)	3239.5	41.7			
FH	(60°-80°)	2439.9	31.4			G2/5000
FVH	(80°-90°)	81.9	1.1			G1/100
BL	(0°-30°)	285.4	3.7	B1/500		
BM	(30°-60°)	600.2	7.7	B1/1000		
BH	(60°-80°)	477.8	6.2	B1/500		G1/500
BVH	(80°-90°)	67.0	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°	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1
2.5°	1180.4	1173.6	1174.6	1172.8	1167.0	1157.0	1146.3	1126.9	1106.6	1095.9	1087.4
5°	1279.1	1277.1	1274.5	1268.4	1253.9	1233.2	1207.6	1173.1	1136.1	1116.5	1097.8
7.5°	1352.8	1351.7	1348.3	1344.4	1330.3	1305.4	1266.9	1217.9	1163.9	1137.2	1108.1
10°	1358.9	1361.0	1363.5	1373.9	1375.8	1362.5	1323.0	1263.8	1193.0	1158.5	1121.5
12.5°	1307.0	1311.2	1321.5	1347.9	1375.8	1392.3	1372.0	1311.9	1227.1	1185.4	1138.4
15°	1238.1	1240.4	1253.1	1289.4	1339.5	1390.4	1409.5	1365.0	1271.0	1219.8	1163.6
17.5°	1208.7	1209.8	1218.7	1242.8	1289.4	1362.0	1430.5	1422.9	1325.0	1262.6	1194.5
20°	1193.7	1196.5	1209.1	1232.8	1262.3	1325.8	1433.6	1485.2	1389.2	1316.1	1233.5
22.5°	1236.3	1235.0	1239.6	1251.6	1276.3	1314.6	1431.3	1549.4	1471.0	1385.0	1284.5
25°	1335.2	1339.5	1331.5	1318.1	1326.1	1352.8	1443.6	1619.0	1573.6	1473.4	1351.0
27.5°	1476.4	1472.2	1460.4	1429.0	1412.5	1423.9	1484.1	1693.9	1700.8	1589.6	1439.0
30°	1617.1	1613.6	1602.2	1563.9	1530.2	1520.8	1562.9	1780.1	1852.7	1729.1	1546.8
32.5°	1763.2	1759.4	1748.7	1710.5	1669.9	1647.7	1674.8	1879.5	2031.5	1895.8	1673.8
35°	1943.2	1936.1	1913.4	1860.3	1820.6	1803.4	1816.0	2004.5	2238.0	2093.2	1827.8
37.5°	2112.6	2123.8	2100.8	2027.5	1975.9	1969.7	1983.8	2157.0	2460.6	2313.8	2004.9
40°	2282.9	2284.7	2264.1	2204.1	2150.9	2140.9	2176.6	2342.1	2723.4	2577.7	2220.1
42.5°	2458.8	2462.6	2427.7	2372.3	2333.3	2335.2	2375.8	2559.0	3024.8	2888.6	2467.9
45°	2667.1	2672.9	2634.7	2562.0	2526.4	2597.9	2581.1	2802.2	3355.1	3241.8	2752.5
47.5°	2885.1	2894.0	2864.9	2796.8	2752.5	2850.7	2786.4	3071.8	3710.7	3620.9	3064.8
50°	3004.1	3016.6	3044.9	3040.0	3030.5	3014.0	3015.5	3360.9	4077.3	4015.5	3386.1
52.5°	2940.1	2939.8	3043.1	3168.4	3302.3	3312.2	3294.6	3665.5	4420.0	4401.3	3688.5
55°	2648.0	2667.9	2824.4	3067.1	3432.7	3661.0	3712.9	4014.7	4756.5	4778.4	3995.6
57.5°	2161.5	2178.1	2389.2	2727.5	3256.8	3868.3	4308.0	4522.1	5132.8	5234.5	4404.3
60°	1466.0	1485.9	1709.7	2116.2	2783.4	3752.7	4874.3	5427.6	5583.2	5814.6	4978.0
62.5°	861.5	879.5	1061.9	1334.9	1959.8	3216.3	5122.8	6715.8	6298.7	6689.8	5852.8
65°	593.1	605.3	694.1	830.9	1126.1	2166.2	4814.6	7605.3	7399.6	7774.4	6867.3
67.5°	477.3	475.8	546.1	639.3	725.1	1116.9	3640.7	7504.7	8367.7	8524.2	7393.8
70°	393.2	391.5	439.3	516.6	579.3	629.0	1983.0	6333.1	8170.4	8233.9	6909.0
72.5°	328.9	330.4	361.0	418.4	475.3	473.7	871.5	4455.1	6427.5	6866.5	5507.5
75°	277.6	278.4	298.6	339.1	385.8	381.7	472.6	2413.6	3736.3	4041.8	3052.9
77.5°	236.3	237.1	250.1	272.6	305.9	304.4	344.9	1042.8	1558.6	1539.5	1044.3
80°	210.7	210.7	216.8	221.0	239.4	232.5	255.7	501.0	658.9	608.3	416.9
82.5°	165.2	166.0	203.4	201.9	188.5	179.7	179.7	295.2	349.1	322.8	243.9
85°	92.9	92.6	131.1	158.3	166.0	126.5	125.4	165.2	190.0	167.5	118.1
87.5°	39.8	40.5	60.7	70.4	94.1	78.7	77.6	85.2	96.7	83.7	54.6
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°	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1
2.5°	1079.5	1069.5	1047.7	1020.6	996.1	980.0	965.6	944.5	945.6	931.1	920.4
5°	1078.7	1058.0	1007.6	947.6	889.8	848.2	816.8	788.6	781.6	768.2	760.2
7.5°	1079.5	1045.8	960.9	865.0	793.4	740.7	713.9	699.0	695.6	690.9	691.4
10°	1082.1	1034.6	909.7	787.8	712.8	678.0	671.5	676.1	681.4	683.0	683.3
12.5°	1088.2	1024.8	853.6	718.9	662.3	651.6	662.6	678.4	688.7	693.7	693.2
15°	1102.0	1017.1	799.6	665.0	634.4	640.1	660.8	683.0	697.8	704.7	705.2
17.5°	1116.9	1006.1	744.2	623.7	613.7	628.2	653.9	679.9	698.2	706.0	707.5
20°	1136.4	992.3	686.0	592.7	594.3	610.6	634.8	660.8	681.0	687.6	690.6
22.5°	1162.1	977.5	635.2	567.5	572.1	584.6	603.4	625.9	643.5	646.6	649.3
25°	1196.5	961.4	594.6	544.5	546.4	553.7	566.3	579.7	591.9	588.5	591.2
27.5°	1242.8	947.6	564.5	523.5	520.1	521.6	528.0	532.3	538.7	529.3	530.4
30°	1297.0	932.6	541.1	505.1	495.6	492.9	494.4	496.7	501.7	488.7	486.7
32.5°	1360.2	914.7	519.3	489.1	475.8	470.4	471.1	477.3	496.4	488.3	484.1
35°	1433.6	894.4	496.4	471.5	462.2	454.6	453.9	473.0	530.0	525.0	521.1
37.5°	1519.6	874.2	473.4	451.6	452.4	443.9	441.3	463.0	536.5	517.1	514.3
40°	1628.9	863.4	453.9	430.6	440.1	439.0	433.6	444.6	493.7	458.2	453.5
42.5°	1764.3	865.0	439.3	408.0	425.6	437.8	429.4	429.8	447.4	420.6	416.4
45°	1931.4	883.0	429.1	390.0	409.1	436.7	427.9	421.7	423.3	409.1	406.9
47.5°	2126.4	920.1	421.7	375.1	393.5	432.4	427.5	419.4	416.1	408.4	406.5
50°	2343.3	973.9	416.4	361.0	379.3	425.6	427.9	417.2	413.3	410.3	409.1
52.5°	2556.2	1035.4	408.4	348.7	368.2	417.2	429.1	414.8	410.7	408.4	407.2
55°	2793.8	1112.4	396.2	338.3	359.0	406.5	429.1	411.5	406.9	407.2	406.9
57.5°	3114.6	1236.6	381.7	329.6	348.0	393.5	421.7	407.6	401.8	402.3	402.6
60°	3615.8	1455.8	364.1	320.7	334.3	378.1	411.8	399.3	393.5	395.0	395.4
62.5°	4353.1	1777.3	341.1	307.8	319.7	361.7	398.0	388.5	382.7	386.6	386.6
65°	5119.4	2061.0	312.8	291.4	304.4	343.7	380.9	375.1	369.4	378.1	377.8
67.5°	5325.6	1997.6	284.5	273.3	289.1	323.9	360.2	357.2	354.1	369.4	368.6
70°	4730.9	1603.7	258.5	255.0	272.3	302.4	338.0	338.0	336.1	347.6	344.9
72.5°	3604.4	1137.2	233.6	235.6	253.2	279.1	313.9	316.7	313.6	319.2	317.0
75°	1929.5	650.8	208.8	214.1	229.5	255.4	287.2	289.9	287.9	287.6	288.7
77.5°	641.3	318.2	182.8	191.2	204.6	231.0	259.3	263.5	258.8	258.1	257.8
80°	285.6	200.0	154.0	165.2	177.0	203.0	229.8	233.3	228.3	235.1	226.3
82.5°	183.5	131.5	123.5	135.7	147.2	175.2	200.4	201.1	196.5	228.3	194.6
85°	89.0	81.4	92.9	104.1	113.9	137.6	166.0	166.3	154.8	141.1	136.1
87.5°	44.4	47.4	62.0	71.9	76.8	94.4	120.8	118.5	113.5	103.2	95.2
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)