

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: P200364

Luminaire Tested: **GPC-AF-02-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7050-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8233 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

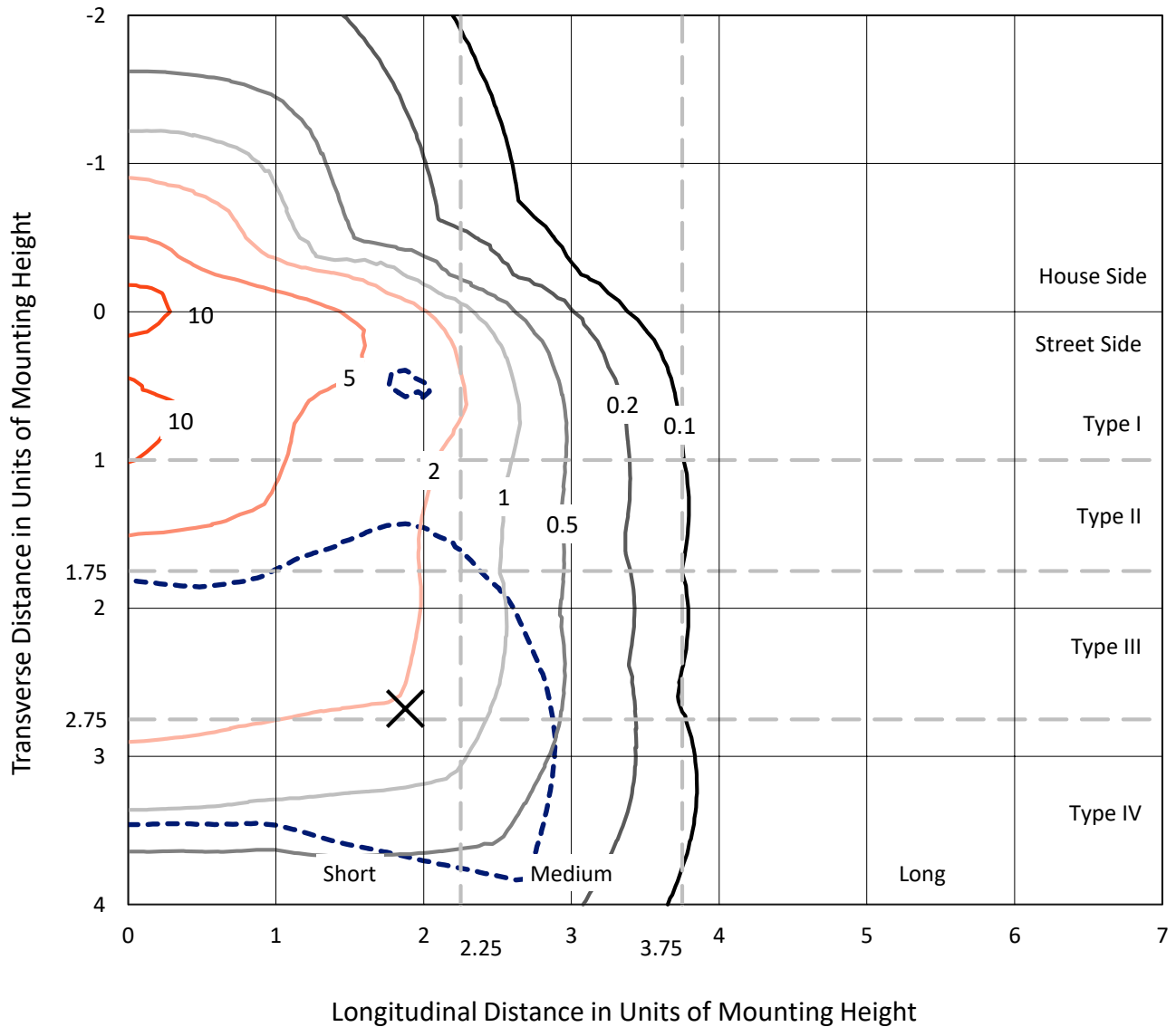
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

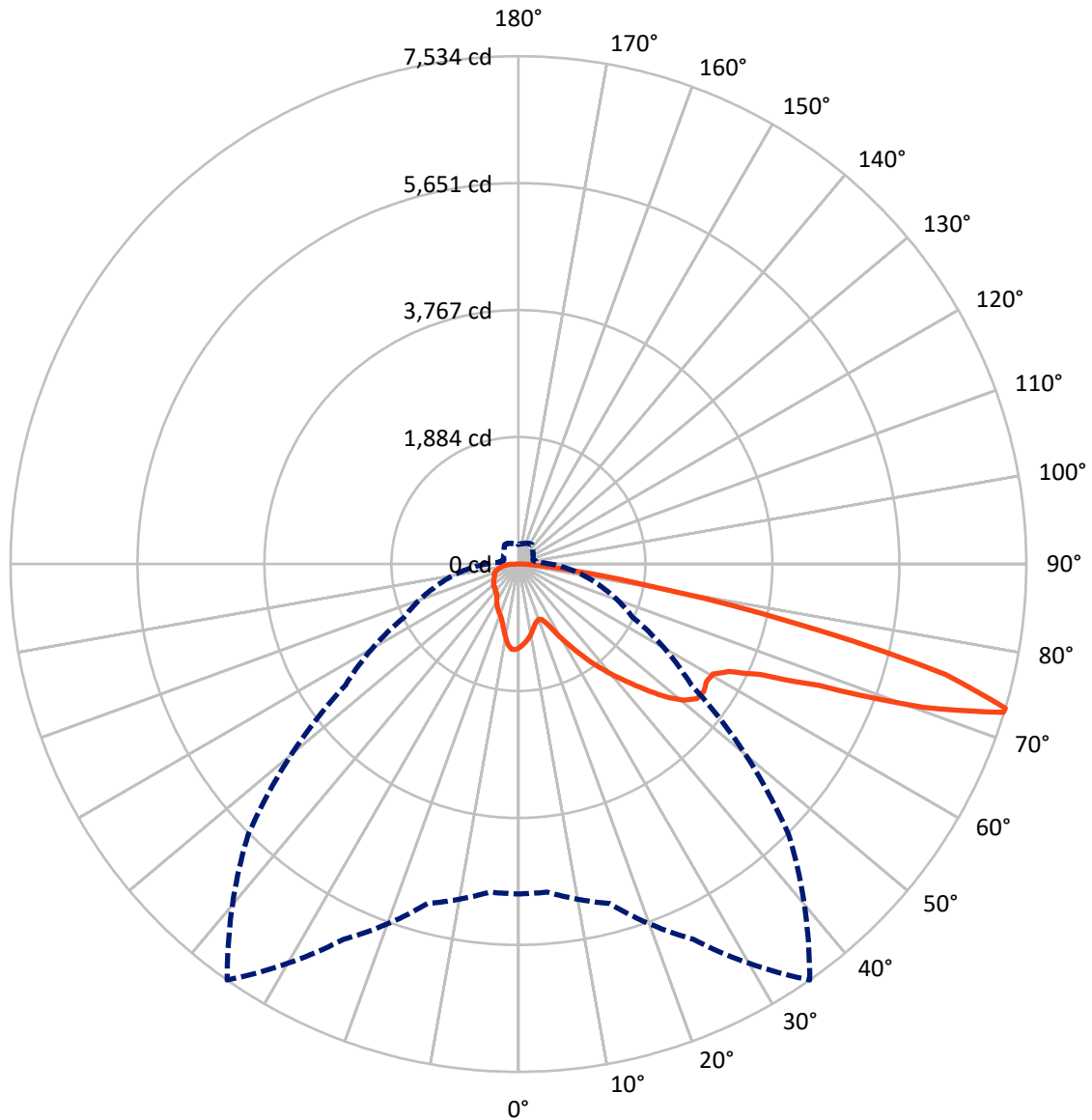
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1570.3	0.0	1570.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	6662.7	0.0	6662.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	8233.0	0.0	8233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.4
10°-20°	280.8	3.4
20°-30°	453.9	5.5
30°-40°	761.1	9.2
40°-50°	1173.2	14.3
50°-60°	1574.0	19.1
60°-70°	2096.9	25.5
70°-80°	1599.3	19.4
80°-90°	181.3	2.2
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°	8233.0	100.0
0°-180°	8233.0	100.0

Coefficient of Utilization



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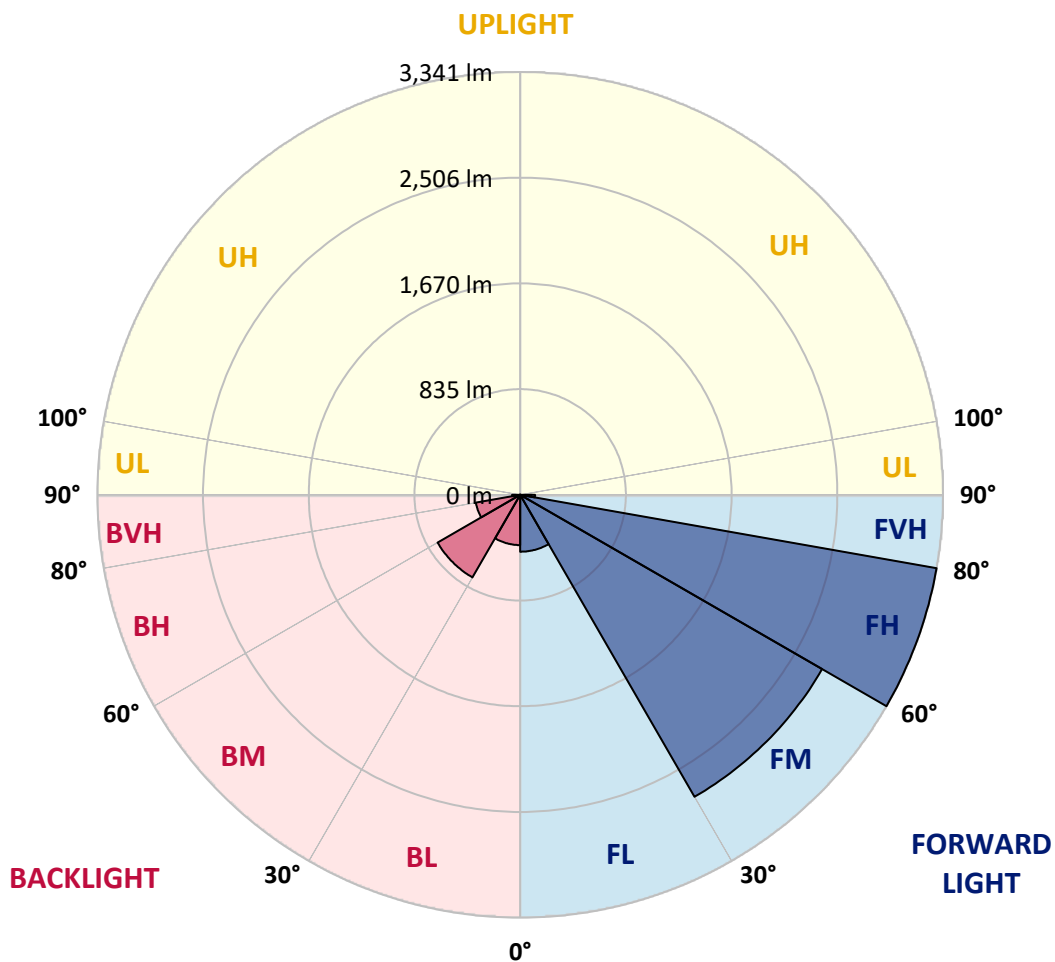
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.8	5.5			
FM	(30°-60°)	2754.8	33.5			
FH	(60°-80°)	3341.0	40.6			G2/5000
FVH	(80°-90°)	117.2	1.4			G2/225
BL	(0°-30°)	397.4	4.8	B1/500		
BM	(30°-60°)	753.5	9.2	B1/1000		
BH	(60°-80°)	355.3	4.3	B1/500		G1/500
BVH	(80°-90°)	64.1	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6
2.5°	1193.6	1196.0	1193.2	1196.8	1202.7	1209.0	1213.4	1219.7	1226.8	1236.7	1239.1
5°	1137.4	1141.0	1141.0	1147.3	1158.8	1169.1	1178.6	1188.8	1203.9	1220.9	1227.6
7.5°	1075.8	1077.8	1081.3	1090.8	1107.4	1122.0	1135.5	1152.1	1172.6	1195.2	1207.0
10°	1001.4	1004.2	1009.7	1023.2	1045.7	1065.9	1085.3	1108.2	1134.3	1162.4	1177.4
12.5°	948.9	948.1	950.4	960.3	980.1	1004.6	1032.7	1061.9	1094.0	1126.8	1145.0
15°	931.1	926.7	917.6	915.3	925.9	950.4	982.9	1018.8	1057.2	1096.7	1119.3
17.5°	942.1	934.6	909.7	891.5	890.0	908.5	942.9	983.3	1027.5	1075.8	1103.8
20°	1011.7	993.9	932.7	890.3	875.7	884.8	914.9	957.6	1009.7	1073.8	1109.8
22.5°	1178.2	1152.1	1022.0	943.3	893.9	882.8	905.4	950.8	1011.7	1098.3	1144.2
25°	1420.5	1383.4	1175.4	1075.4	973.4	914.5	919.6	966.3	1039.8	1155.2	1210.6
27.5°	1611.9	1587.8	1375.9	1261.6	1118.1	999.9	965.9	1005.0	1097.1	1248.5	1305.1
30°	1725.7	1711.1	1590.1	1472.7	1302.7	1135.9	1054.4	1077.8	1186.9	1377.8	1424.5
32.5°	1857.8	1849.1	1789.8	1681.9	1502.0	1314.6	1194.8	1186.5	1307.1	1533.2	1554.6
35°	1994.6	1991.8	1957.0	1879.5	1715.9	1550.2	1381.0	1324.9	1437.9	1694.5	1681.1
37.5°	2121.9	2117.2	2097.0	2051.9	1939.6	1803.2	1570.8	1466.8	1579.1	1848.7	1789.0
40°	2356.3	2319.2	2250.0	2216.0	2165.8	2016.3	1721.4	1599.2	1725.3	1995.8	1882.3
42.5°	2642.2	2581.7	2452.8	2406.2	2399.0	2184.4	1824.2	1727.7	1872.8	2141.7	1974.0
45°	2867.1	2810.2	2699.1	2640.2	2666.3	2336.6	1927.4	1864.9	2024.6	2294.7	2068.5
47.5°	3107.1	3017.8	2870.7	2888.5	2945.4	2480.5	2032.5	2012.4	2191.1	2465.9	2185.9
50°	3115.8	3047.4	2983.0	3089.3	3177.9	2612.9	2164.2	2167.0	2394.7	2681.3	2342.1
52.5°	2935.2	2920.5	3022.9	3190.2	3317.9	2717.7	2314.0	2326.7	2655.2	2928.8	2513.7
55°	2871.9	2855.3	2973.5	3155.0	3336.8	2804.3	2476.5	2499.5	2970.3	3189.8	2680.9
57.5°	3026.1	2989.3	2997.2	3138.4	3290.6	2899.2	2653.7	2699.9	3312.7	3417.9	2788.5
60°	3457.0	3378.3	3228.9	3225.3	3315.5	3041.5	2858.5	2915.0	3668.5	3527.0	2746.6
62.5°	4061.5	3982.9	3702.9	3520.7	3507.2	3276.3	3109.9	3124.9	3874.1	3379.1	2490.8
65°	4715.9	4645.5	4332.7	4075.4	3951.2	3665.4	3402.1	3218.6	3806.9	2972.3	2043.2
67.5°	5510.1	5434.6	5165.8	4928.2	4808.8	4293.2	3607.3	3128.9	3380.3	2302.6	1468.8
70°	6065.6	5988.5	5882.6	6075.1	6367.3	5199.0	3633.8	2764.0	2524.8	1530.4	884.0
72.5°	5340.9	5304.9	5498.3	6309.1	7526.1	5748.5	3284.6	2012.4	1466.4	812.5	511.6
73°	4893.4	4885.5	5215.2	6145.1	7534.4	5663.9	3131.6	1870.4	1257.6	718.8	467.7
75°	2209.7	2273.3	2996.0	4693.7	6546.0	4667.2	2204.1	1073.0	710.5	496.6	353.1
77.5°	531.0	553.1	937.4	2229.0	4133.9	2781.4	998.7	530.6	454.3	350.7	257.8
80°	226.1	233.7	361.0	823.5	1946.4	1120.1	460.2	355.4	314.3	244.7	180.7
82.5°	125.7	133.6	204.8	373.6	785.6	381.9	280.7	247.5	206.8	147.5	117.4
85°	71.2	75.5	119.8	208.7	332.9	153.4	168.0	164.5	116.6	75.9	57.7
87.5°	33.6	36.4	57.7	96.9	130.5	60.1	85.4	94.1	73.1	46.3	30.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6	1242.6
2.5°	1241.8	1248.9	1257.2	1261.6	1265.5	1270.3	1275.0	1275.0	1275.8	1276.2
5°	1233.1	1247.8	1260.8	1266.3	1267.5	1267.5	1266.3	1260.0	1254.5	1256.8
7.5°	1214.9	1236.3	1247.4	1245.4	1230.4	1213.0	1198.3	1180.5	1171.5	1169.9
10°	1188.8	1213.4	1215.3	1195.6	1158.4	1121.2	1090.4	1060.4	1046.1	1042.6
12.5°	1160.0	1182.5	1169.9	1129.1	1069.4	1015.3	976.1	945.7	932.3	928.7
15°	1136.7	1152.1	1120.1	1056.0	980.9	923.6	891.1	868.6	859.1	856.3
17.5°	1124.4	1127.6	1069.1	982.5	902.6	854.8	834.6	823.9	820.4	818.4
20°	1130.3	1108.2	1020.4	914.1	838.6	805.0	800.2	797.4	796.6	795.5
22.5°	1160.0	1102.3	975.7	849.2	782.4	767.8	771.7	771.3	770.6	769.8
25°	1213.0	1107.4	932.3	787.6	735.4	732.2	739.3	739.3	736.2	736.2
27.5°	1282.9	1118.1	883.6	729.0	692.7	693.1	698.6	697.0	693.5	691.1
30°	1368.3	1124.8	826.7	676.5	652.7	651.2	652.7	646.0	635.3	634.6
32.5°	1455.7	1116.5	760.7	629.8	610.4	606.9	605.7	596.2	583.9	580.4
35°	1534.8	1086.1	693.5	592.6	570.1	562.2	567.7	564.6	553.5	550.7
37.5°	1592.5	1029.5	633.0	559.8	541.2	539.3	542.8	544.0	531.0	528.2
40°	1631.3	952.8	581.2	532.2	535.7	528.2	516.3	508.0	504.1	502.9
42.5°	1662.5	873.0	537.7	519.1	536.9	515.2	489.5	476.0	483.1	486.3
45°	1698.5	795.1	501.3	502.9	531.0	500.1	470.9	457.8	460.6	461.4
47.5°	1747.9	700.2	462.2	476.8	511.2	489.9	459.4	440.8	427.8	421.8
50°	1816.3	587.9	421.5	447.5	491.8	482.3	441.6	421.8	397.7	392.2
52.5°	1863.7	483.1	387.8	423.0	474.4	467.3	427.4	401.7	376.4	371.6
55°	1838.0	401.3	358.6	395.8	451.5	448.7	415.5	381.1	361.4	357.4
57.5°	1709.5	349.5	336.1	370.1	423.4	432.9	399.7	363.7	349.5	346.7
60°	1464.4	317.1	321.8	352.7	400.5	417.1	383.9	354.2	344.8	342.8
62.5°	1136.3	295.3	311.1	340.0	382.7	406.0	375.2	353.1	349.5	347.1
65°	814.0	277.9	299.7	327.4	366.5	395.8	372.0	351.5	352.3	350.3
67.5°	553.1	262.5	285.8	313.1	350.7	386.7	367.7	345.9	355.8	353.5
70°	387.1	247.5	269.6	294.9	330.9	374.0	359.8	337.6	336.8	327.4
72.5°	302.1	227.7	247.5	269.6	305.6	356.2	344.0	319.1	306.0	296.1
73°	288.2	223.0	242.0	264.1	300.1	351.9	339.6	313.9	299.3	290.2
75°	238.4	202.4	219.8	239.6	276.4	331.3	318.3	290.6	272.0	266.5
77.5°	187.4	173.2	189.8	207.6	243.5	301.3	286.6	260.1	249.9	245.1
80°	138.8	143.5	158.1	174.0	211.1	269.2	256.2	229.7	275.6	264.1
82.5°	97.7	108.7	122.2	136.4	177.1	238.0	222.2	194.9	201.6	167.6
85°	57.7	71.2	83.8	96.1	127.7	197.3	183.4	155.4	127.3	121.4
87.5°	33.6	39.5	43.1	55.7	87.8	148.7	129.3	115.0	66.0	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)