

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: P200041

Luminaire Tested: **GPC-AF-01-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-T3R-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6895.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

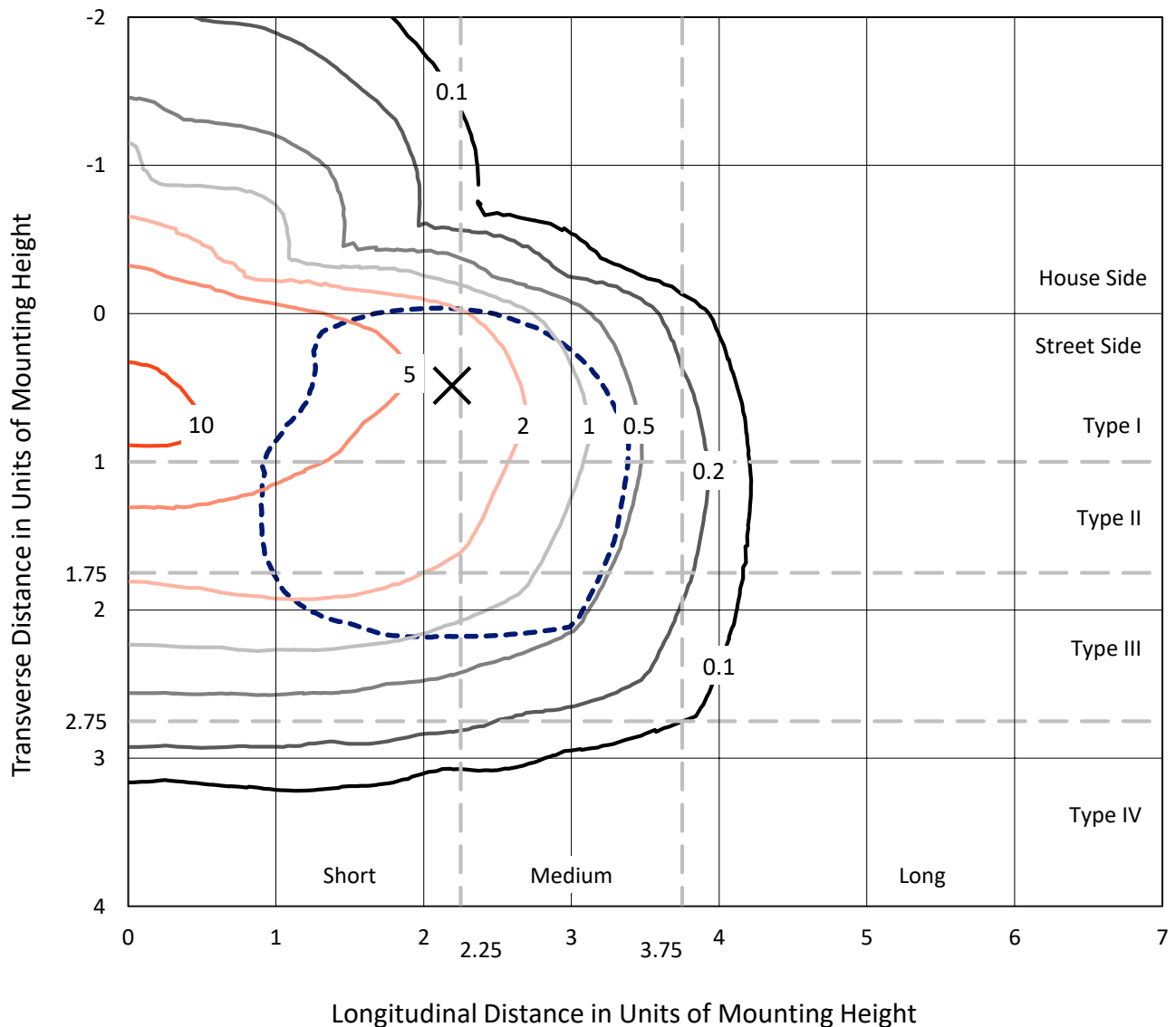
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

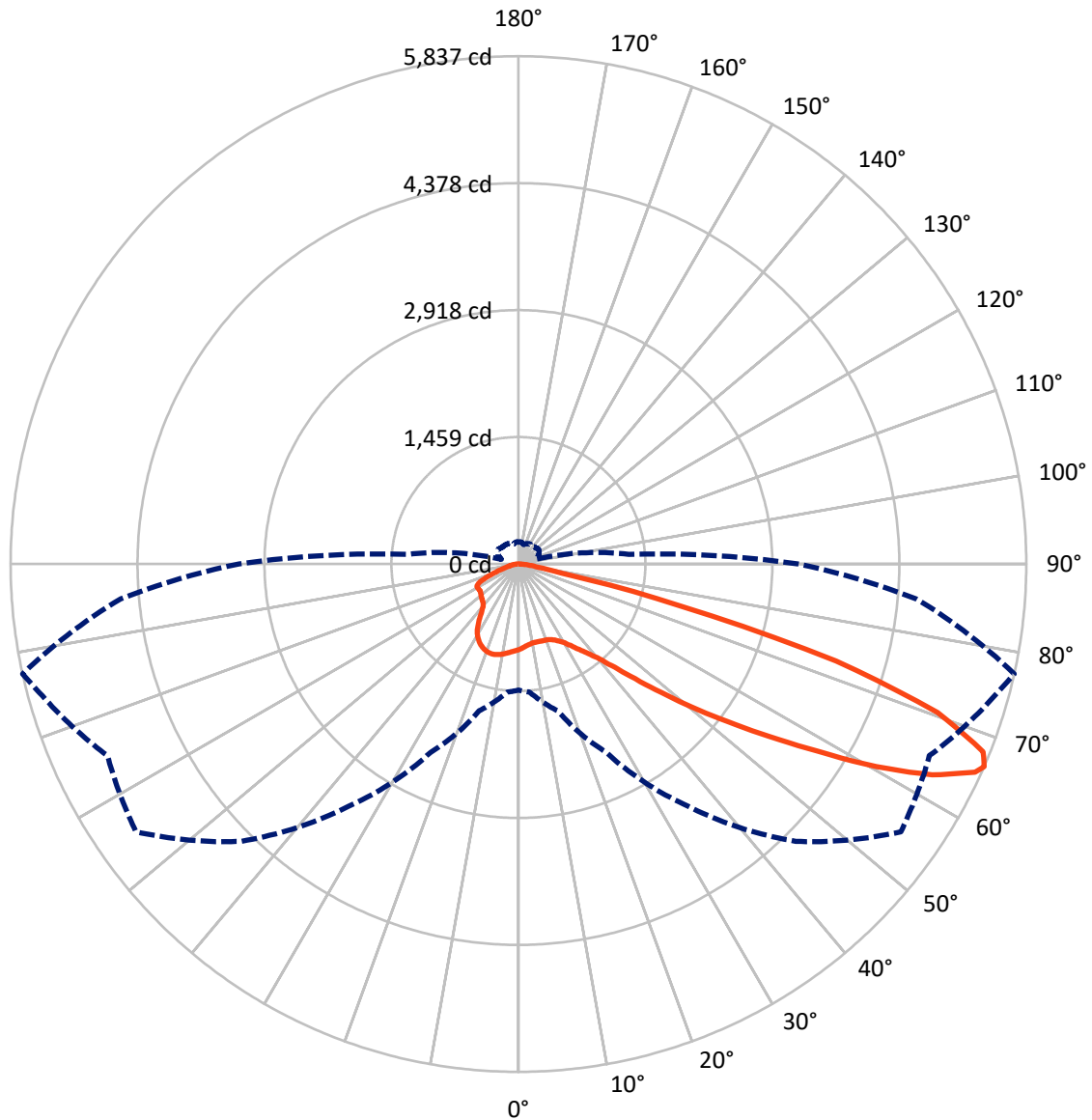
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.0	0.0	1178.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5717.3	0.0	5717.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	6895.4	0.0	6895.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.3
10°-20°	247.7	3.6
20°-30°	422.7	6.1
30°-40°	676.6	9.8
40°-50°	1045.3	15.2
50°-60°	1482.7	21.5
60°-70°	1983.4	28.8
70°-80°	861.3	12.5
80°-90°	87.8	1.3
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°	6895.4	100.0
0°-180°	6895.4	100.0



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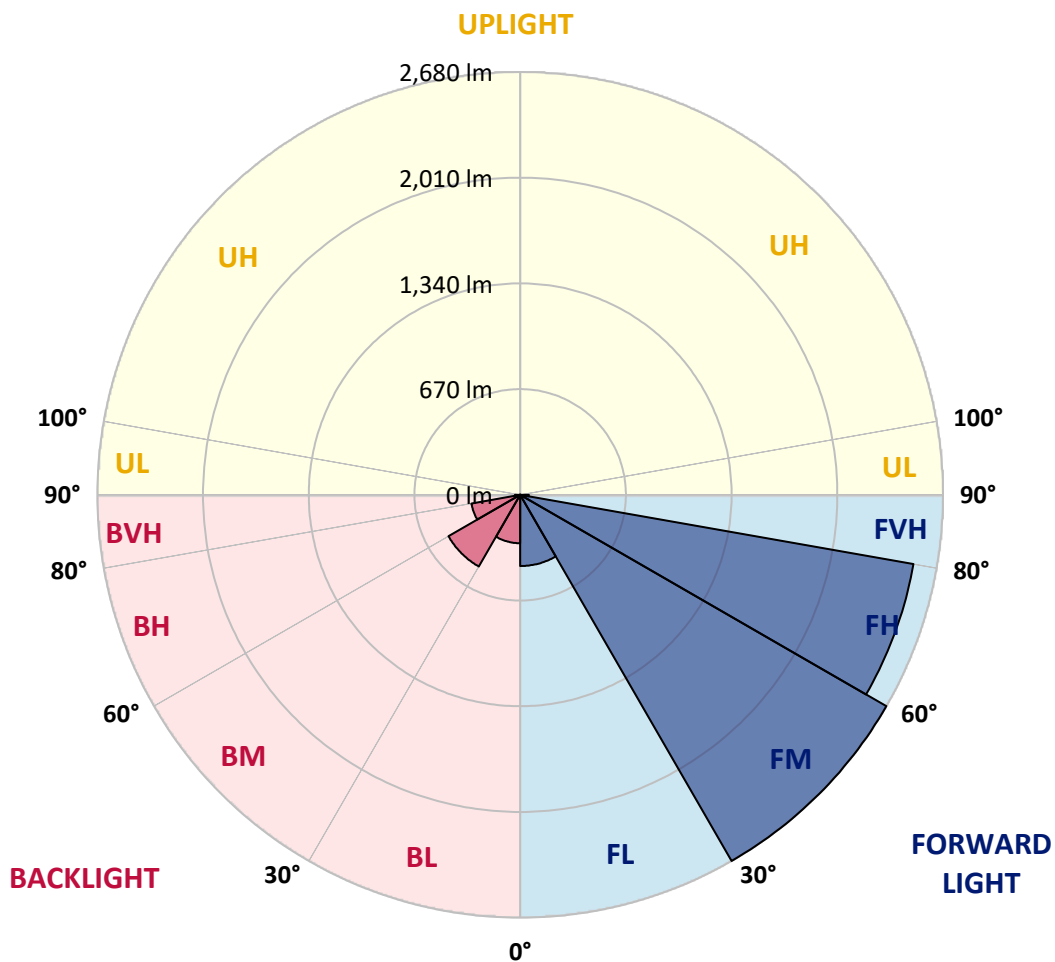
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.3	6.5			
FM	(30°-60°)	2679.9	38.9			
FH	(60°-80°)	2531.0	36.7			G2/5000
FVH	(80°-90°)	55.1	0.8			G1/100
BL	(0°-30°)	306.8	4.4	B1/500		
BM	(30°-60°)	524.7	7.6	B1/1000		
BH	(60°-80°)	313.7	4.5	B1/500		G1/500
BVH	(80°-90°)	32.7	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6
2.5°	869.2	875.0	880.0	884.6	893.6	908.7	926.0	939.9	960.2	964.1	974.8
5°	789.4	789.4	793.3	800.3	812.6	835.1	858.4	889.8	933.7	944.2	972.9
7.5°	750.6	750.9	753.3	759.2	769.8	790.4	816.1	853.0	912.6	929.8	978.8
10°	765.1	761.7	756.8	753.9	755.5	767.5	792.0	833.1	899.5	921.7	991.7
12.5°	845.1	838.9	821.9	799.6	778.0	769.1	783.6	823.6	894.0	919.8	1009.0
15°	976.1	973.5	942.0	895.3	843.2	799.6	789.7	820.0	894.7	922.0	1029.6
17.5°	1140.3	1136.8	1095.0	1027.2	942.3	857.1	811.6	822.9	896.9	926.0	1049.4
20°	1306.2	1295.0	1250.2	1169.3	1060.2	935.7	847.8	830.5	899.9	930.2	1070.3
22.5°	1429.9	1420.8	1380.4	1302.0	1176.1	1026.6	896.3	843.5	909.4	942.6	1096.0
25°	1538.8	1539.5	1499.4	1423.4	1293.4	1123.0	958.9	878.3	933.4	967.9	1131.2
27.5°	1673.3	1665.5	1628.1	1552.8	1409.5	1220.4	1034.4	926.3	969.2	1004.1	1177.5
30°	1834.3	1828.8	1785.4	1700.1	1538.2	1325.0	1120.8	982.0	1015.6	1051.7	1238.0
32.5°	2023.6	2021.0	1976.0	1866.1	1686.6	1448.2	1222.1	1055.6	1084.6	1122.1	1325.0
35°	2245.8	2246.1	2193.0	2061.0	1849.2	1591.6	1337.2	1150.4	1168.6	1207.8	1428.7
37.5°	2382.6	2399.3	2379.3	2244.7	2033.4	1751.9	1486.4	1276.1	1264.4	1303.9	1539.8
40°	2411.9	2432.1	2495.1	2426.5	2239.3	1928.4	1618.5	1397.0	1382.3	1430.6	1682.8
42.5°	2370.8	2398.9	2531.9	2580.0	2457.9	2146.1	1796.4	1576.6	1558.0	1622.8	1860.6
45°	2346.5	2367.3	2521.0	2659.8	2647.5	2392.0	2022.9	1802.0	1795.1	1880.3	2065.9
47.5°	2304.1	2323.0	2470.9	2678.4	2758.9	2617.6	2295.0	2077.7	2091.0	2202.4	2297.6
50°	2326.9	2334.7	2414.8	2631.2	2791.1	2782.8	2599.0	2396.9	2442.5	2581.7	2559.8
52.5°	2323.6	2343.8	2408.3	2553.6	2795.4	2884.7	2898.3	2753.0	2849.2	3008.8	2850.8
55°	1878.6	1915.8	2331.8	2534.0	2810.3	2984.6	3164.8	3128.3	3307.5	3493.6	3179.2
57.5°	1793.8	1817.3	2047.9	2575.1	2889.9	3175.6	3461.4	3541.4	3841.2	4057.3	3579.3
60°	1777.2	1806.3	2045.2	2625.3	3051.2	3486.8	3900.9	4041.6	4490.5	4727.1	4043.2
62.5°	1725.4	1756.8	2025.8	2618.8	3280.2	3917.2	4463.5	4573.3	5106.3	5336.3	4431.2
65°	1561.2	1590.6	1869.1	2513.6	3434.6	4376.5	5129.4	5060.7	5592.4	5765.4	4624.7
66°	1448.9	1477.5	1745.6	2389.7	3398.7	4506.8	5365.2	5211.5	5701.2	5836.7	4586.9
67.5°	1243.3	1265.8	1505.8	2112.5	3208.2	4543.3	5563.7	5325.0	5712.6	5760.4	4370.9
70°	785.5	792.0	978.8	1458.3	2428.5	3940.2	5261.7	5043.4	5241.5	5111.8	3664.3
72.5°	340.8	338.4	469.9	741.9	1374.9	2643.8	4256.3	4161.4	4111.7	3815.8	2565.1
75°	189.6	192.2	243.9	344.3	558.8	1298.6	2784.4	2664.4	2249.6	1919.5	1163.1
77.5°	152.2	155.7	202.3	244.3	250.9	452.9	1302.9	1060.2	638.3	512.2	323.2
80°	120.1	126.7	176.6	190.2	169.2	186.8	420.9	336.5	252.5	231.6	167.5
82.5°	95.2	99.7	151.6	144.0	118.2	125.7	201.7	196.4	164.2	149.5	96.8
85°	68.4	76.9	124.4	108.5	77.6	84.6	134.0	128.4	94.2	76.9	42.7
87.5°	28.0	36.5	88.0	72.0	43.3	39.5	66.7	63.0	44.7	32.6	21.2
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°	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6	982.6
2.5°	981.7	989.5	999.6	1005.7	1009.0	1011.3	1014.9	1014.6	1015.6	1015.9	1017.2
5°	988.1	1001.2	1015.9	1019.7	1019.7	1016.2	1012.7	1006.8	1004.4	1003.8	1004.4
7.5°	1005.0	1019.4	1032.2	1027.6	1017.9	1003.4	984.9	968.6	959.9	956.9	956.2
10°	1026.6	1043.9	1049.1	1031.9	1003.1	968.6	931.8	905.1	889.8	885.5	884.2
12.5°	1052.7	1069.0	1061.8	1025.3	972.2	916.4	865.7	822.9	791.0	780.9	780.3
15°	1081.3	1094.0	1069.0	1005.0	926.0	843.8	753.3	679.6	639.8	627.1	626.2
17.5°	1108.1	1114.6	1064.7	969.9	857.8	724.9	604.6	548.1	534.3	537.5	538.2
20°	1130.9	1130.9	1050.4	919.4	750.6	568.1	492.3	491.3	501.1	510.9	512.9
22.5°	1156.0	1141.0	1025.3	848.1	598.8	464.9	453.9	462.9	474.0	484.8	486.4
25°	1186.9	1149.1	990.4	739.9	470.8	422.3	426.4	434.0	439.6	446.4	447.3
27.5°	1221.4	1159.6	944.5	591.0	408.5	395.5	398.8	401.4	400.8	403.3	404.0
30°	1262.8	1171.6	881.6	461.9	382.9	372.7	366.9	364.6	364.6	368.9	370.4
32.5°	1318.2	1189.5	791.4	395.8	370.4	356.4	337.5	329.1	332.3	346.7	349.9
35°	1379.1	1208.7	669.2	373.3	367.8	349.0	319.6	304.0	304.3	317.6	321.9
37.5°	1445.6	1233.2	535.3	369.2	373.6	349.3	310.2	288.7	279.8	279.8	281.5
40°	1530.6	1258.2	433.3	372.0	386.1	353.1	305.3	276.7	251.9	252.5	253.8
42.5°	1641.4	1279.8	378.6	378.2	401.1	358.4	305.0	260.7	239.2	253.8	267.1
45°	1764.5	1290.5	354.4	383.8	413.1	361.6	299.7	258.1	240.8	284.4	309.9
47.5°	1906.2	1284.4	341.1	385.8	416.1	361.6	293.9	264.2	252.2	329.4	359.0
50°	2061.7	1266.5	328.1	381.9	415.0	361.0	299.4	270.4	256.4	337.2	357.8
52.5°	2244.4	1251.4	314.4	373.3	408.2	357.4	305.9	267.8	243.1	306.6	320.9
55°	2453.0	1255.6	299.1	361.3	397.4	350.6	303.6	257.5	229.0	270.1	278.9
57.5°	2719.5	1306.2	280.8	346.1	382.9	339.1	295.5	252.5	224.8	245.0	250.2
60°	3016.9	1394.1	258.1	330.7	364.6	320.9	289.3	254.8	226.7	243.1	245.7
62.5°	3235.1	1445.3	238.5	308.2	339.8	300.7	281.5	257.8	231.9	249.8	249.2
65°	3294.5	1361.2	214.0	275.4	306.3	279.4	271.7	261.0	234.3	255.4	252.5
66°	3211.4	1270.5	203.3	260.0	289.3	269.1	266.8	260.7	233.3	256.1	251.2
67.5°	3009.8	1085.0	184.7	237.5	262.2	253.5	259.1	257.8	230.6	255.4	248.6
70°	2454.6	740.2	158.0	197.8	218.3	223.2	243.9	247.3	222.3	243.9	229.0
72.5°	1715.1	450.9	139.8	153.4	176.6	190.2	223.6	232.9	210.8	213.0	198.8
75°	828.8	239.5	126.7	118.9	137.1	159.0	198.8	213.4	192.9	178.2	172.9
77.5°	258.4	146.3	107.5	95.8	107.5	128.4	166.2	187.1	171.6	149.2	147.3
80°	138.8	107.5	82.7	76.9	85.0	100.6	130.7	156.0	147.6	134.0	119.5
82.5°	91.6	69.7	61.3	59.6	64.8	76.9	97.1	129.4	129.4	114.7	83.4
85°	47.2	42.7	42.1	42.1	45.3	51.2	66.1	99.7	106.2	60.6	50.1
87.5°	23.5	24.5	22.8	23.8	25.4	25.1	31.5	50.1	60.0	36.8	30.6
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)