

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: P192270

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192270
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: GLEON-AF-02-LED-E1-T3R-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8205 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - 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

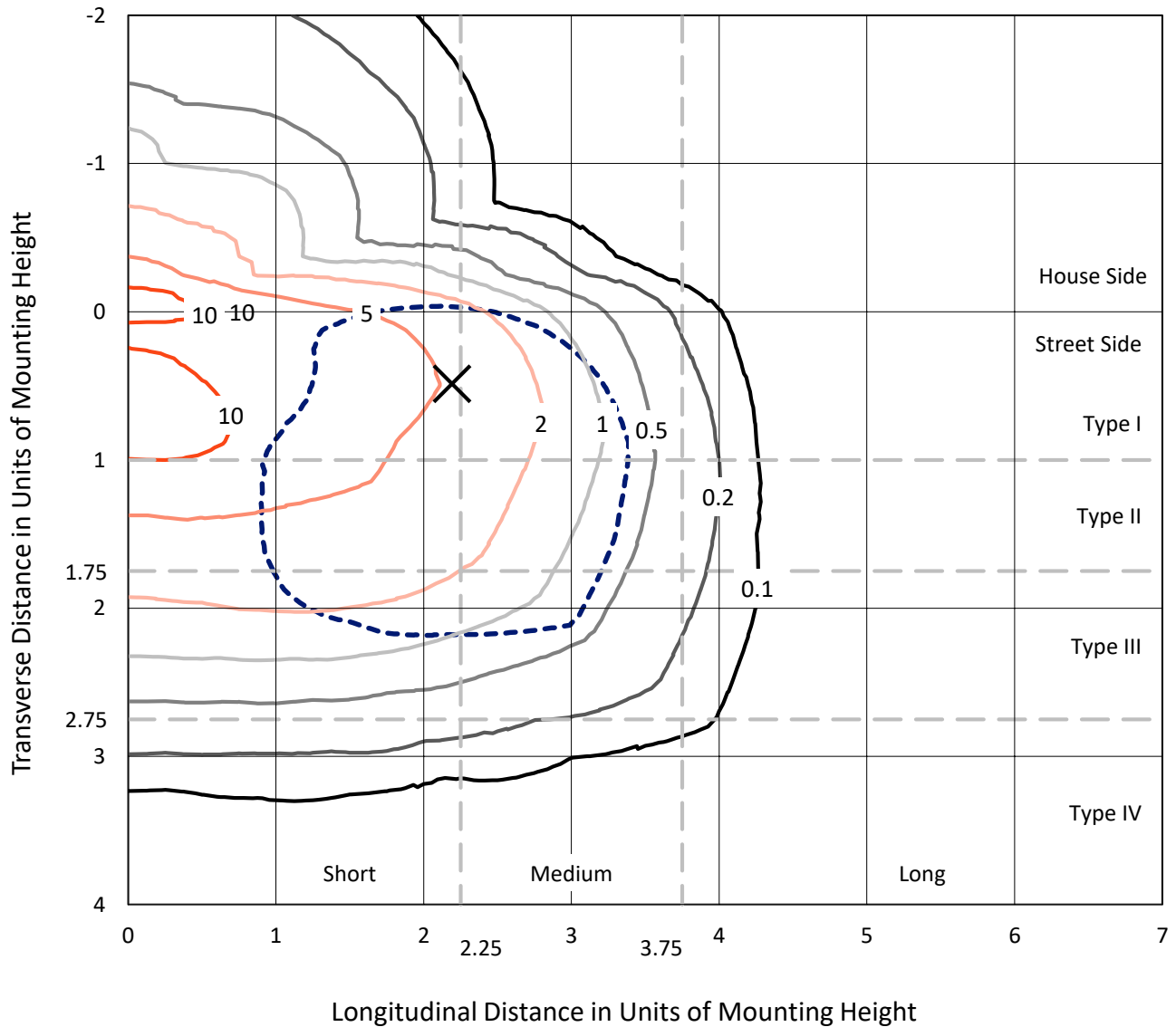


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

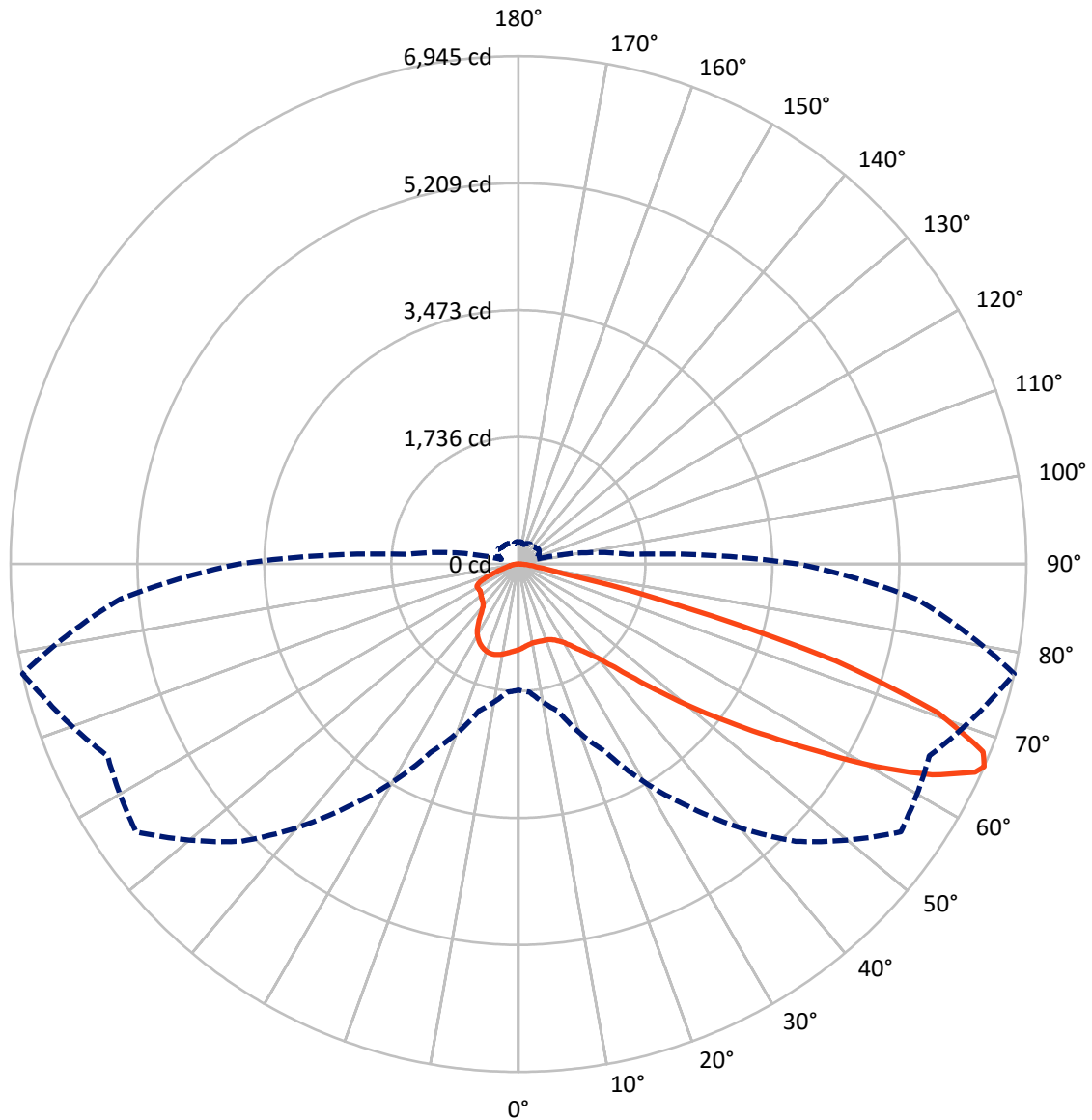


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - Full Cutoff

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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	1401.8	0.0	1401.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6803.2	0.0	6803.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	8205.0	0.0	8205.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.3
10°-20°	294.7	3.6
20°-30°	503.0	6.1
30°-40°	805.2	9.8
40°-50°	1243.9	15.2
50°-60°	1764.3	21.5
60°-70°	2360.1	28.8
70°-80°	1024.9	12.5
80°-90°	104.5	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°	8205.0	100.0
0°-180°	8205.0	100.0



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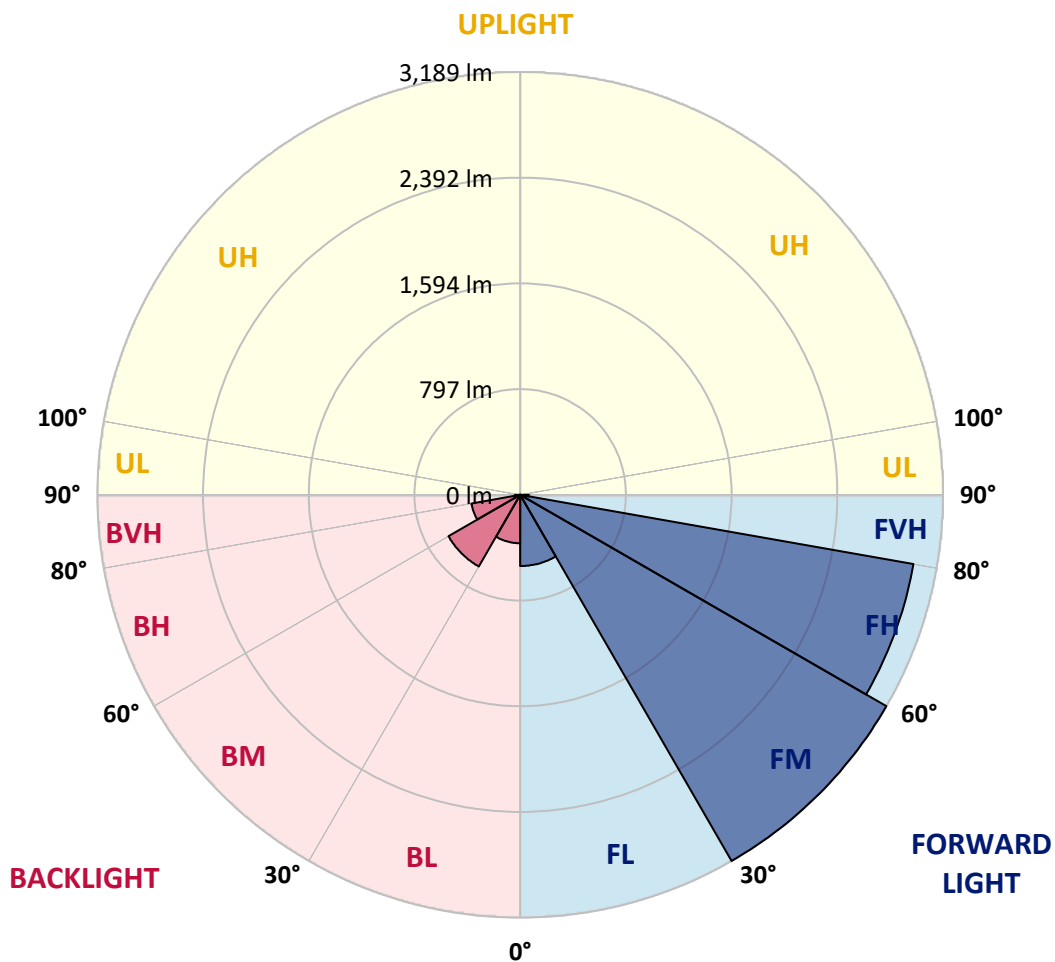
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.1	6.5			
FM (30°-60°)	3188.9	38.9			
FH (60°-80°)	3011.7	36.7			G2/5000
FVH (80°-90°)	65.5	0.8			G1/100
BL (0°-30°)	365.1	4.4	B1/500		
BM (30°-60°)	624.4	7.6	B1/1000		
BH (60°-80°)	373.3	4.5	B1/500		G1/500
BVH (80°-90°)	39.0	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°	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1034.3	1041.3	1047.1	1052.6	1063.4	1081.2	1101.8	1118.5	1142.5	1147.2	1159.9
5°	939.4	939.4	944.0	952.1	966.9	993.6	1021.5	1058.8	1111.1	1123.5	1157.6
7.5°	893.2	893.6	896.3	903.3	916.1	940.5	971.1	1015.0	1085.9	1106.4	1164.6
10°	910.3	906.4	900.6	897.1	899.0	913.4	942.5	991.3	1070.4	1096.8	1180.1
12.5°	1005.6	998.3	978.1	951.4	925.8	915.3	932.4	980.1	1063.8	1094.4	1200.7
15°	1161.5	1158.4	1120.8	1065.4	1003.3	951.4	939.7	975.8	1064.6	1097.1	1225.1
17.5°	1356.9	1352.6	1303.0	1222.4	1121.2	1020.0	965.7	979.3	1067.3	1101.8	1248.7
20°	1554.2	1541.0	1487.5	1391.4	1261.5	1113.4	1008.8	988.2	1070.8	1106.8	1273.5
22.5°	1701.5	1690.7	1642.6	1549.2	1399.5	1221.6	1066.5	1003.7	1082.0	1121.6	1304.2
25°	1831.0	1831.8	1784.1	1693.8	1539.1	1336.3	1141.0	1045.2	1110.7	1151.8	1346.0
27.5°	1991.1	1981.8	1937.3	1847.7	1677.1	1452.3	1230.9	1102.2	1153.4	1194.8	1401.1
30°	2182.7	2176.1	2124.5	2022.9	1830.3	1576.7	1333.6	1168.5	1208.4	1251.4	1473.2
32.5°	2407.9	2404.8	2351.3	2220.6	2007.0	1723.3	1454.2	1256.1	1290.6	1335.2	1576.7
35°	2672.3	2672.7	2609.5	2452.5	2200.5	1893.8	1591.1	1368.9	1390.6	1437.1	1700.0
37.5°	2835.1	2854.9	2831.2	2671.1	2419.5	2084.6	1768.6	1518.6	1504.6	1551.5	1832.2
40°	2870.0	2894.1	2968.9	2887.5	2664.5	2294.7	1926.0	1662.4	1644.9	1702.3	2002.4
42.5°	2821.2	2854.5	3012.7	3070.1	2924.7	2553.7	2137.7	1876.0	1853.9	1931.0	2214.1
45°	2792.1	2816.9	2999.9	3165.0	3150.3	2846.4	2407.1	2144.3	2136.1	2237.3	2458.3
47.5°	2741.7	2764.2	2940.2	3187.1	3282.9	3114.6	2730.8	2472.3	2488.1	2620.7	2733.9
50°	2768.8	2778.1	2873.5	3130.9	3321.3	3311.2	3092.5	2852.2	2906.5	3072.0	3046.0
52.5°	2765.0	2789.0	2865.8	3038.7	3326.3	3432.5	3448.8	3275.9	3390.3	3580.3	3392.2
55°	2235.4	2279.6	2774.6	3015.4	3344.2	3551.6	3766.0	3722.5	3935.8	4157.1	3783.0
57.5°	2134.6	2162.5	2437.0	3064.2	3438.7	3778.7	4118.7	4214.1	4570.8	4827.8	4259.1
60°	2114.8	2149.3	2433.5	3123.9	3630.6	4149.0	4641.7	4809.2	5343.4	5624.9	4811.1
62.5°	2053.2	2090.4	2410.6	3116.2	3903.2	4661.1	5311.3	5441.9	6076.2	6349.9	5272.9
65°	1857.8	1892.7	2224.1	2991.0	4087.0	5207.7	6103.7	6021.9	6654.6	6860.4	5503.2
66°	1724.0	1758.1	2077.2	2843.7	4044.3	5362.8	6384.4	6201.4	6784.1	6945.3	5458.2
67.5°	1479.4	1506.1	1791.9	2513.7	3817.5	5406.2	6620.5	6336.3	6797.6	6854.6	5201.2
70°	934.7	942.5	1164.6	1735.3	2889.8	4688.6	6261.1	6001.3	6237.0	6082.7	4360.3
72.5°	405.5	402.8	559.0	882.8	1636.0	3146.0	5064.7	4951.9	4892.6	4540.5	3052.2
75°	225.6	228.7	290.4	409.8	664.9	1545.3	3313.1	3170.5	2677.0	2284.2	1384.0
77.5°	181.0	185.3	240.8	290.8	298.5	538.9	1550.3	1261.5	759.5	609.4	384.6
80°	143.1	150.8	210.1	226.4	201.2	222.1	500.9	400.5	300.5	275.6	199.3
82.5°	113.2	118.6	180.3	171.4	140.7	149.6	240.0	233.8	195.4	177.9	115.1
85°	81.4	91.5	148.1	129.1	92.3	100.8	159.3	152.7	112.0	91.5	50.8
87.5°	33.3	43.4	104.7	85.7	51.6	46.9	79.5	74.8	53.1	38.8	25.2
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°	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1168.1	1177.4	1189.4	1196.8	1200.7	1203.4	1207.6	1207.2	1208.4	1208.8	1210.3
5°	1175.8	1191.3	1208.8	1213.4	1213.4	1209.2	1204.9	1197.9	1195.2	1194.5	1195.2
7.5°	1196.0	1213.1	1228.2	1222.8	1211.1	1194.1	1172.0	1152.6	1142.1	1138.6	1137.8
10°	1221.6	1242.1	1248.3	1227.8	1193.7	1152.6	1108.8	1077.0	1058.8	1053.7	1052.2
12.5°	1252.6	1272.0	1263.5	1220.0	1156.8	1090.6	1030.1	979.3	941.3	929.3	928.5
15°	1286.7	1301.8	1272.0	1196.0	1101.8	1004.1	896.3	808.7	761.4	746.3	745.1
17.5°	1318.5	1326.3	1266.9	1154.1	1020.8	862.6	719.5	652.1	635.8	639.7	640.5
20°	1345.6	1345.6	1249.9	1094.0	893.2	676.1	585.8	584.6	596.3	607.9	610.2
22.5°	1375.5	1357.7	1220.0	1009.1	712.6	553.2	540.0	550.9	564.1	576.9	578.8
25°	1412.3	1367.4	1178.6	880.4	560.2	502.4	507.5	516.4	523.0	531.1	532.3
27.5°	1453.4	1379.8	1123.9	703.3	486.2	470.6	474.5	477.6	476.8	480.0	480.7
30°	1502.7	1394.1	1049.1	549.7	455.5	443.5	436.5	433.8	433.8	438.9	440.8
32.5°	1568.6	1415.4	941.7	471.0	440.8	424.1	401.6	391.6	395.4	412.5	416.4
35°	1641.1	1438.3	796.3	444.3	437.7	415.2	380.3	361.7	362.1	378.0	383.0
37.5°	1720.1	1467.4	637.0	439.2	444.7	415.6	369.1	343.5	333.0	333.0	335.0
40°	1821.3	1497.2	515.6	442.7	459.4	420.2	363.3	329.1	299.7	300.5	302.0
42.5°	1953.1	1522.8	450.5	450.1	477.2	426.5	362.9	310.1	284.6	302.0	317.9
45°	2099.7	1535.6	421.8	456.7	491.6	430.3	356.7	307.0	286.5	338.4	368.7
47.5°	2268.3	1528.2	405.9	459.0	495.1	430.3	349.7	314.4	300.1	391.9	427.2
50°	2453.3	1506.9	390.4	454.4	493.9	429.6	356.3	321.8	305.1	401.3	425.7
52.5°	2670.7	1489.1	374.1	444.3	485.8	425.3	364.0	318.7	289.2	364.8	381.9
55°	2918.9	1494.1	355.9	429.9	473.0	417.1	361.3	306.3	272.5	321.4	331.9
57.5°	3236.0	1554.2	334.2	411.7	455.5	403.6	351.6	300.5	267.5	291.5	297.7
60°	3589.9	1658.9	307.0	393.5	433.8	381.9	344.3	303.2	269.8	289.2	292.3
62.5°	3849.7	1719.8	283.8	366.7	404.4	357.8	335.0	306.7	276.0	297.4	296.6
65°	3920.2	1619.7	254.7	327.6	364.4	332.6	323.3	310.5	278.7	303.9	300.5
66°	3821.4	1512.0	241.9	309.4	344.3	320.2	317.5	310.1	277.6	304.7	298.9
67.5°	3581.4	1291.0	219.8	282.6	312.1	301.6	308.2	306.7	274.5	303.9	295.8
70°	2920.8	880.8	188.0	235.3	259.7	265.6	290.4	294.3	264.4	290.4	272.5
72.5°	2040.8	536.6	166.3	182.6	210.1	226.4	266.0	277.2	250.8	253.5	236.5
75°	986.3	284.9	150.8	141.5	163.2	189.2	236.5	253.9	229.5	212.1	205.9
77.5°	307.4	174.1	127.9	114.0	127.9	152.7	197.7	222.5	204.3	177.6	175.2
80°	165.2	127.9	98.5	91.5	101.2	119.8	155.5	185.7	175.6	159.3	142.3
82.5°	108.9	83.0	72.9	70.9	77.1	91.5	115.5	153.9	153.9	136.5	99.2
85°	56.2	50.8	50.0	50.0	53.9	60.9	78.7	118.6	126.4	72.1	59.7
87.5°	27.9	29.1	27.1	28.3	30.2	29.9	37.6	59.7	71.3	43.8	36.4
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)