

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: P191470

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191470
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 8393.3 lumens
Efficiency: N/A
Efficacy: 127.2 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

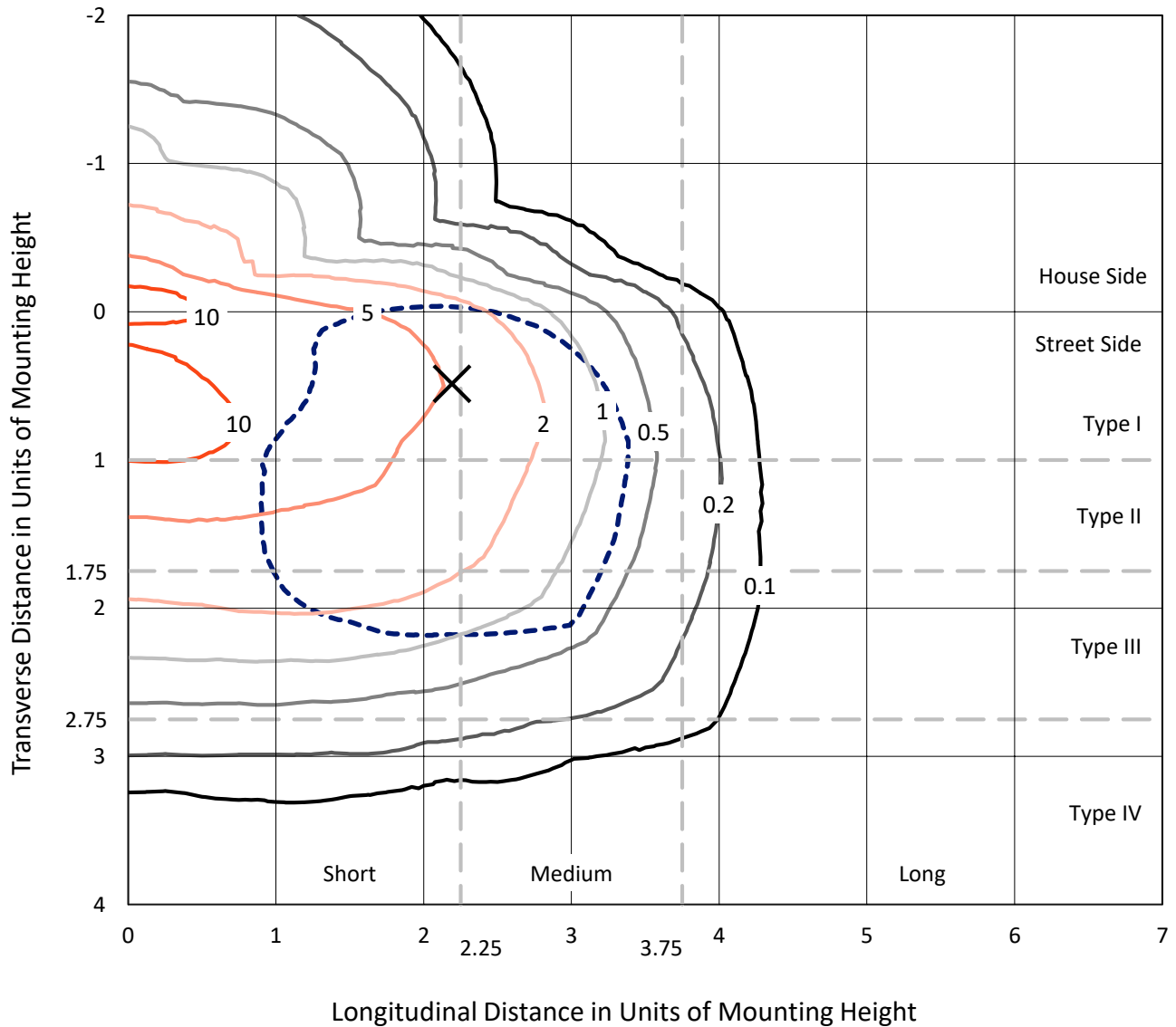


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

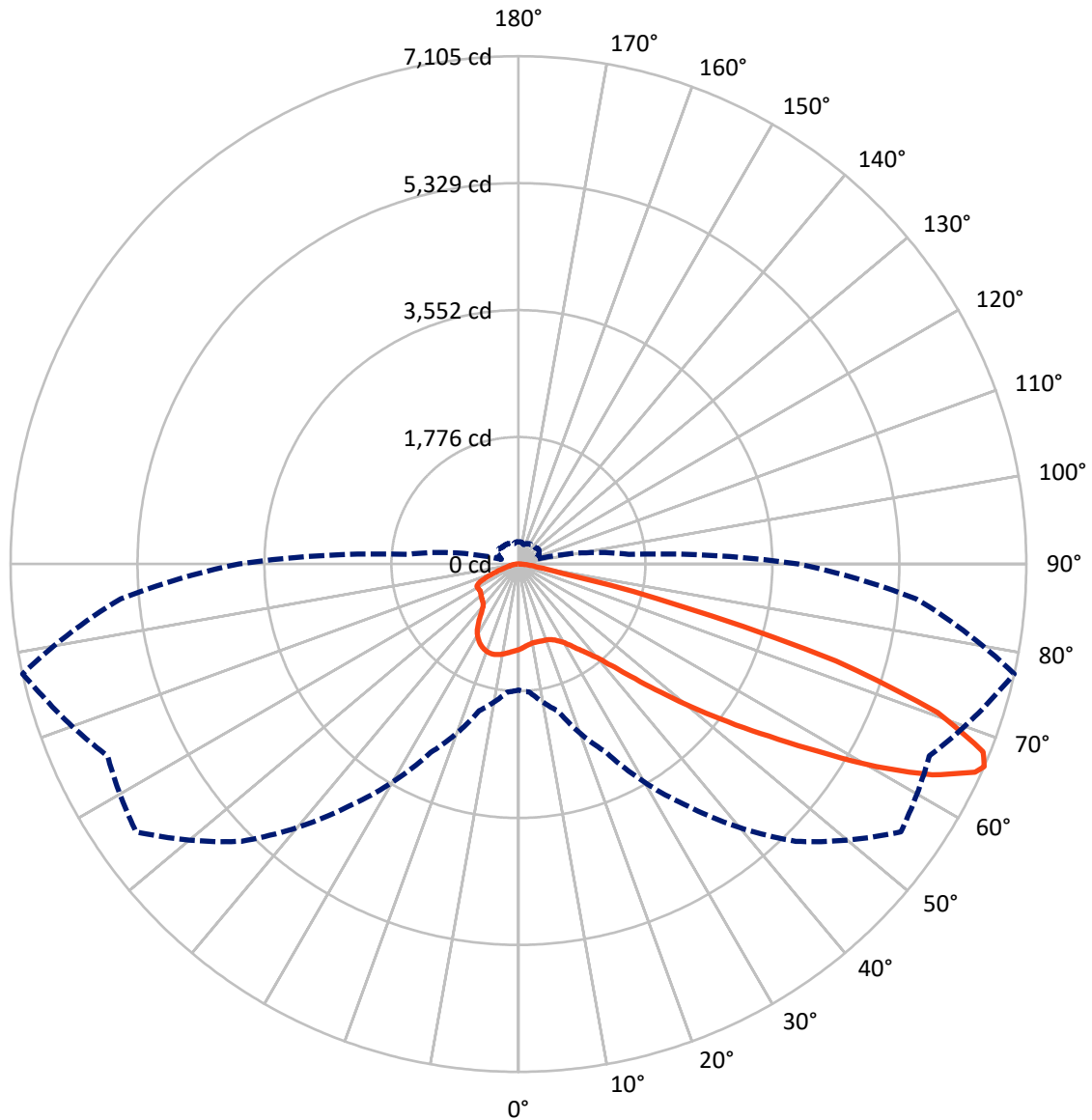


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - Full Cutoff

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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	1433.9	0.0	1433.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6959.4	0.0	6959.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	8393.3	0.0	8393.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	1.3
10°-20°	301.5	3.6
20°-30°	514.5	6.1
30°-40°	823.6	9.8
40°-50°	1272.4	15.2
50°-60°	1804.8	21.5
60°-70°	2414.3	28.8
70°-80°	1048.5	12.5
80°-90°	106.9	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°	8393.3	100.0
0°-180°	8393.3	100.0



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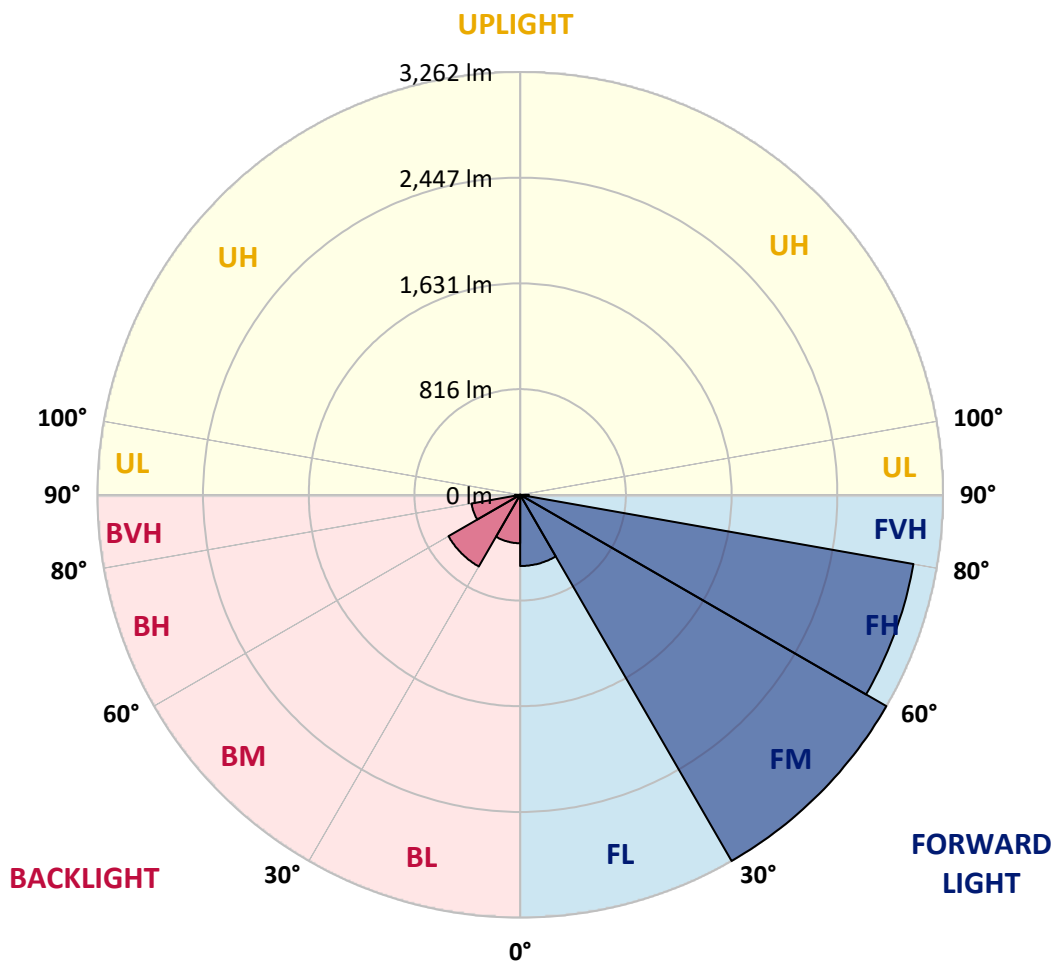
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.4	6.5			
FM	(30°-60°)	3262.1	38.9			
FH	(60°-80°)	3080.9	36.7			G2/5000
FVH	(80°-90°)	67.1	0.8			G1/100
BL	(0°-30°)	373.5	4.4	B1/500		
BM	(30°-60°)	638.7	7.6	B1/1000		
BH	(60°-80°)	381.9	4.5	B1/500		G1/500
BVH	(80°-90°)	39.9	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°	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1058.0	1065.2	1071.1	1076.8	1087.8	1106.0	1127.1	1144.2	1168.7	1173.5	1186.5
5°	961.0	961.0	965.7	974.0	989.1	1016.4	1044.9	1083.1	1136.6	1149.3	1184.2
7.5°	913.7	914.1	916.9	924.0	937.1	962.1	993.4	1038.3	1110.8	1131.8	1191.3
10°	931.2	927.2	921.3	917.7	919.6	934.4	964.1	1014.1	1095.0	1122.0	1207.2
12.5°	1028.7	1021.2	1000.5	973.2	947.0	936.3	953.8	1002.6	1088.2	1119.5	1228.3
15°	1188.2	1185.0	1146.5	1089.9	1026.3	973.2	961.3	998.2	1089.0	1122.3	1253.2
17.5°	1388.0	1383.6	1332.9	1250.5	1146.9	1043.4	987.9	1001.8	1091.8	1127.1	1277.4
20°	1589.9	1576.4	1521.6	1423.3	1290.5	1139.0	1032.0	1010.9	1095.4	1132.2	1302.7
22.5°	1740.6	1729.5	1680.3	1584.8	1431.6	1249.6	1091.0	1026.7	1106.8	1147.3	1334.1
25°	1873.0	1873.8	1825.0	1732.7	1574.4	1367.0	1167.2	1069.2	1136.2	1178.2	1376.9
27.5°	2036.8	2027.3	1981.8	1890.1	1715.6	1485.6	1259.2	1127.5	1179.9	1222.2	1433.3
30°	2232.8	2226.0	2173.3	2069.3	1872.3	1612.9	1364.2	1195.3	1236.1	1280.1	1507.0
32.5°	2463.2	2460.0	2405.3	2271.6	2053.1	1762.9	1487.6	1284.9	1320.2	1365.8	1612.9
35°	2733.6	2734.0	2669.4	2508.8	2251.0	1937.3	1627.6	1400.3	1422.5	1470.1	1739.0
37.5°	2900.2	2920.4	2896.2	2732.4	2475.0	2132.4	1809.2	1553.5	1539.1	1587.1	1874.3
40°	2935.9	2960.5	3037.0	2953.8	2725.7	2347.4	1970.2	1700.6	1682.7	1741.4	2048.4
42.5°	2885.9	2920.0	3081.8	3140.6	2991.8	2612.3	2186.8	1919.1	1896.4	1975.3	2264.9
45°	2856.2	2881.6	3068.8	3237.6	3222.6	2911.7	2462.3	2193.5	2185.1	2288.6	2514.7
47.5°	2804.6	2827.6	3007.7	3260.2	3358.2	3186.1	2793.5	2529.0	2545.2	2680.8	2796.6
50°	2832.3	2841.9	2939.4	3202.8	3397.5	3387.2	3163.5	2917.7	2973.2	3142.5	3115.9
52.5°	2828.5	2853.0	2931.6	3108.4	3402.6	3511.3	3528.0	3351.1	3468.1	3662.5	3470.1
55°	2286.7	2331.9	2838.3	3084.6	3421.0	3633.1	3852.4	3807.9	4026.1	4252.5	3869.8
57.5°	2183.6	2212.1	2492.9	3134.5	3517.6	3865.4	4213.2	4310.8	4675.7	4938.6	4356.8
60°	2163.3	2198.6	2489.4	3195.6	3713.9	4244.2	4748.2	4919.6	5466.0	5754.0	4921.5
62.5°	2100.3	2138.4	2465.9	3187.7	3992.8	4768.1	5433.2	5566.8	6215.7	6495.6	5393.9
65°	1900.4	1936.1	2275.1	3059.6	4180.8	5327.2	6243.8	6160.1	6807.3	7017.9	5629.5
66°	1763.6	1798.4	2124.9	2909.0	4137.1	5485.9	6530.9	6343.7	6939.8	7104.7	5583.5
67.5°	1513.4	1540.7	1833.0	2571.4	3905.1	5530.3	6772.4	6481.7	6953.6	7011.9	5320.6
70°	956.2	964.1	1191.3	1775.1	2956.1	4796.2	6404.8	6139.0	6380.1	6222.3	4460.4
72.5°	414.8	412.0	571.8	903.1	1673.5	3218.2	5180.9	5065.6	5004.9	4644.7	3122.3
75°	230.8	233.9	297.1	419.2	680.2	1580.8	3389.1	3243.3	2738.4	2336.6	1415.8
77.5°	185.2	189.6	246.3	297.5	305.4	551.3	1585.9	1290.5	776.9	623.4	393.4
80°	146.4	154.3	214.9	231.6	205.8	227.2	512.4	409.7	307.4	281.9	203.9
82.5°	115.8	121.3	184.4	175.3	143.9	153.0	245.5	239.2	199.9	182.0	117.7
85°	83.3	93.6	151.5	132.1	94.4	103.1	163.0	156.2	114.6	93.6	52.0
87.5°	34.1	44.4	107.1	87.7	52.8	48.0	81.3	76.5	54.3	39.7	25.8
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°	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1	1196.1
2.5°	1194.9	1204.4	1216.7	1224.3	1228.3	1231.0	1235.3	1234.9	1236.1	1236.5	1238.1
5°	1202.8	1218.6	1236.5	1241.2	1241.2	1237.0	1232.6	1225.4	1222.6	1221.9	1222.6
7.5°	1223.4	1240.9	1256.4	1250.9	1238.9	1221.5	1198.9	1179.1	1168.3	1164.7	1163.9
10°	1249.6	1270.6	1276.9	1256.0	1221.1	1179.1	1134.2	1101.7	1083.1	1077.9	1076.3
12.5°	1281.3	1301.2	1292.5	1248.0	1183.3	1115.6	1053.7	1001.8	962.9	950.6	949.8
15°	1316.2	1331.7	1301.2	1223.4	1127.1	1027.1	916.9	827.3	778.9	763.4	762.2
17.5°	1348.8	1356.7	1296.0	1180.6	1044.2	882.4	736.0	667.1	650.4	654.4	655.2
20°	1376.5	1376.5	1278.6	1119.1	913.7	691.6	599.2	598.0	610.0	621.9	624.2
22.5°	1407.1	1388.9	1248.0	1032.3	729.0	565.9	552.4	563.5	577.0	590.1	592.1
25°	1444.7	1398.8	1205.6	900.6	573.1	513.9	519.1	528.3	535.0	543.3	544.5
27.5°	1486.8	1411.5	1149.7	719.4	497.4	481.4	485.4	488.6	487.7	491.0	491.7
30°	1537.2	1426.1	1073.2	562.3	466.0	453.7	446.5	443.8	443.8	449.0	450.9
32.5°	1604.6	1447.9	963.3	481.8	450.9	433.8	410.8	400.6	404.5	422.0	426.0
35°	1678.8	1471.3	814.6	454.5	447.7	424.7	389.0	370.0	370.4	386.7	391.8
37.5°	1759.6	1501.1	651.6	449.3	454.9	425.1	377.6	351.4	340.6	340.6	342.7
40°	1863.1	1531.6	527.4	452.9	469.9	429.8	371.6	336.7	306.6	307.4	308.9
42.5°	1997.9	1557.7	460.8	460.4	488.2	436.3	371.2	317.2	291.1	308.9	325.2
45°	2147.9	1570.8	431.5	467.2	502.9	440.2	364.9	314.0	293.1	346.2	377.2
47.5°	2320.4	1563.3	415.2	469.5	506.5	440.2	357.7	321.6	307.0	400.9	437.0
50°	2509.6	1541.5	399.4	464.8	505.2	439.5	364.5	329.2	312.1	410.5	435.5
52.5°	2732.0	1523.3	382.7	454.5	496.9	435.1	372.4	326.0	295.8	373.2	390.7
55°	2985.9	1528.4	364.1	439.8	483.9	426.7	369.6	313.3	278.8	328.8	339.5
57.5°	3310.3	1589.9	341.9	421.1	466.0	412.9	359.7	307.4	273.6	298.2	304.5
60°	3672.3	1697.0	314.0	402.5	443.8	390.7	352.2	310.2	276.0	295.8	299.0
62.5°	3938.1	1759.3	290.3	375.1	413.7	366.0	342.7	313.7	282.3	304.2	303.4
65°	4010.2	1656.9	260.5	335.1	372.8	340.2	330.7	317.6	285.1	310.9	307.4
66°	3909.1	1546.7	247.5	316.5	352.2	327.5	324.8	317.2	284.0	311.7	305.8
67.5°	3663.6	1320.6	224.8	289.1	319.3	308.5	315.3	313.7	280.8	310.9	302.6
70°	2987.8	901.0	192.3	240.7	265.7	271.7	297.1	301.1	270.5	297.1	278.8
72.5°	2087.6	548.9	170.1	186.8	214.9	231.6	272.1	283.6	256.6	259.3	241.9
75°	1008.9	291.4	154.3	144.7	166.9	193.5	241.9	259.7	234.8	217.0	210.6
77.5°	314.5	178.1	130.8	116.6	130.8	156.2	202.2	227.6	209.0	181.7	179.2
80°	169.0	130.8	100.8	93.6	103.5	122.5	159.1	190.0	179.6	163.0	145.6
82.5°	111.4	84.9	74.6	72.5	78.9	93.6	118.2	157.4	157.4	139.6	101.5
85°	57.5	52.0	51.1	51.1	55.1	62.3	80.5	121.3	129.3	73.8	61.1
87.5°	28.5	29.8	27.7	28.9	30.9	30.6	38.5	61.1	72.9	44.8	37.2
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)