

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: P191440

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10067.9 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

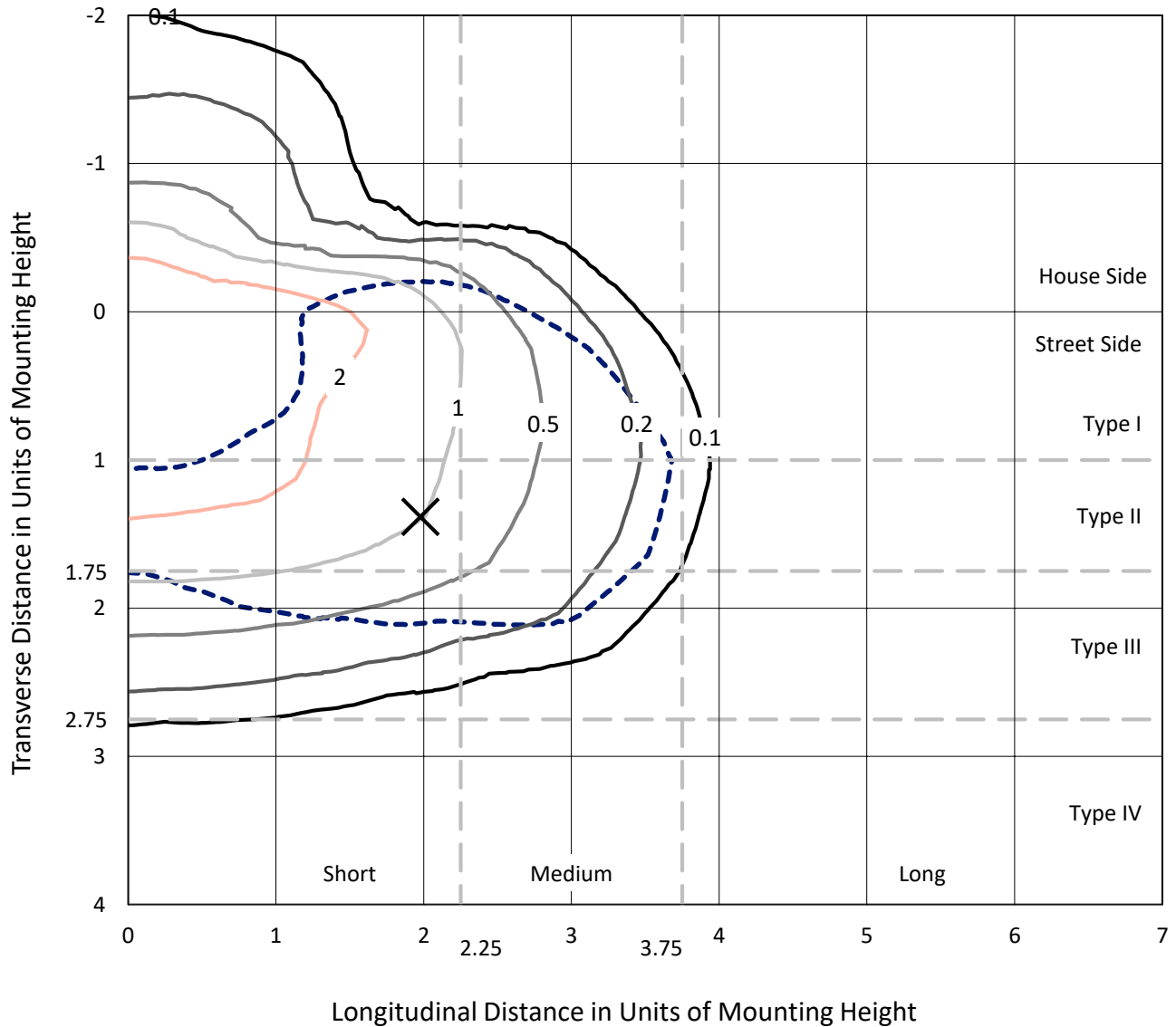
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

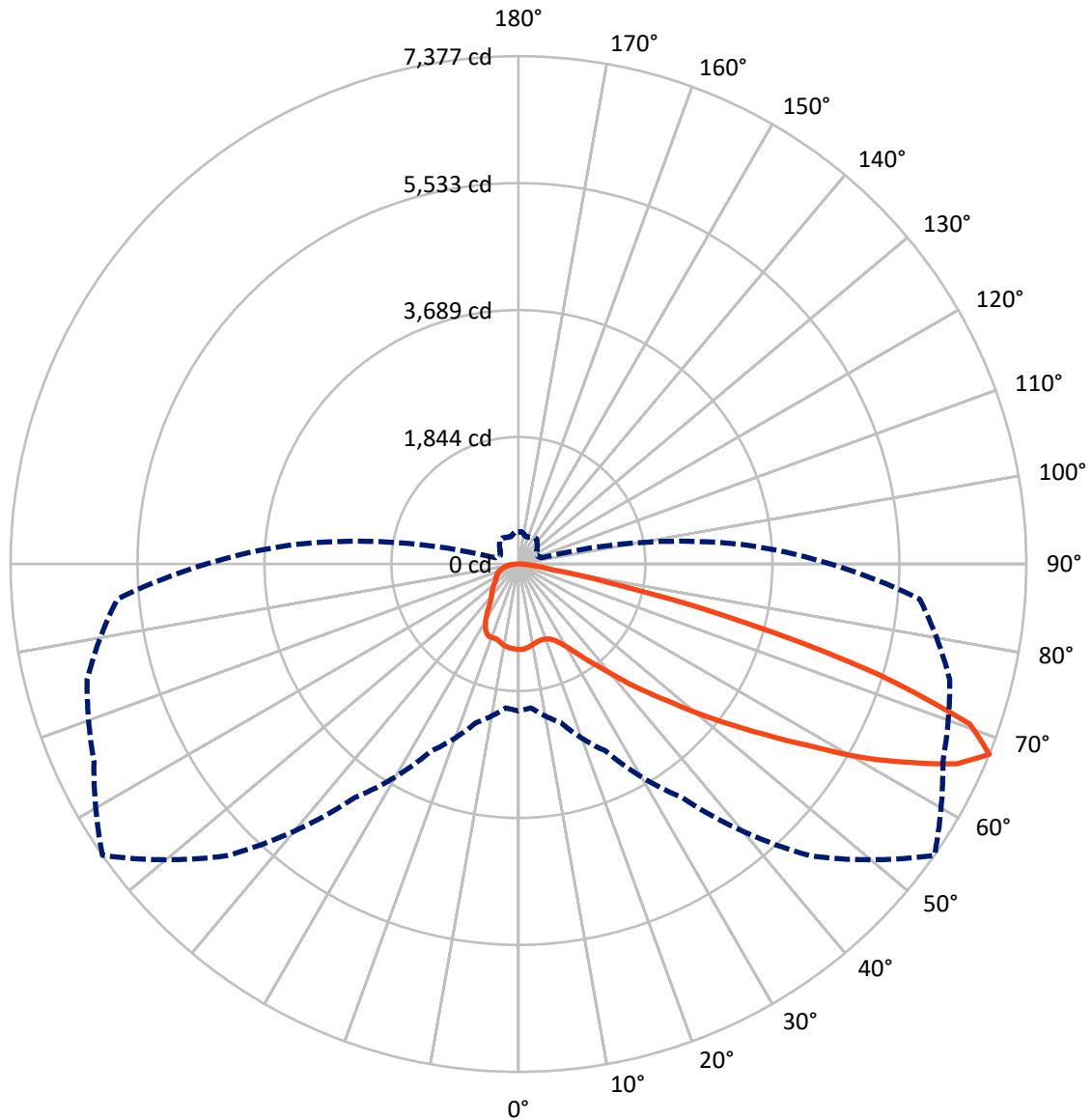
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2174.9	0.0	2174.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7893.0	0.0	7893.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	10067.9	0.0	10067.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.2
10°-20°	328.2	3.3
20°-30°	549.8	5.5
30°-40°	904.0	9.0
40°-50°	1521.8	15.1
50°-60°	2395.1	23.8
60°-70°	2858.3	28.4
70°-80°	1227.4	12.2
80°-90°	167.4	1.7
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°	10067.9	100.0
0°-180°	10067.9	100.0



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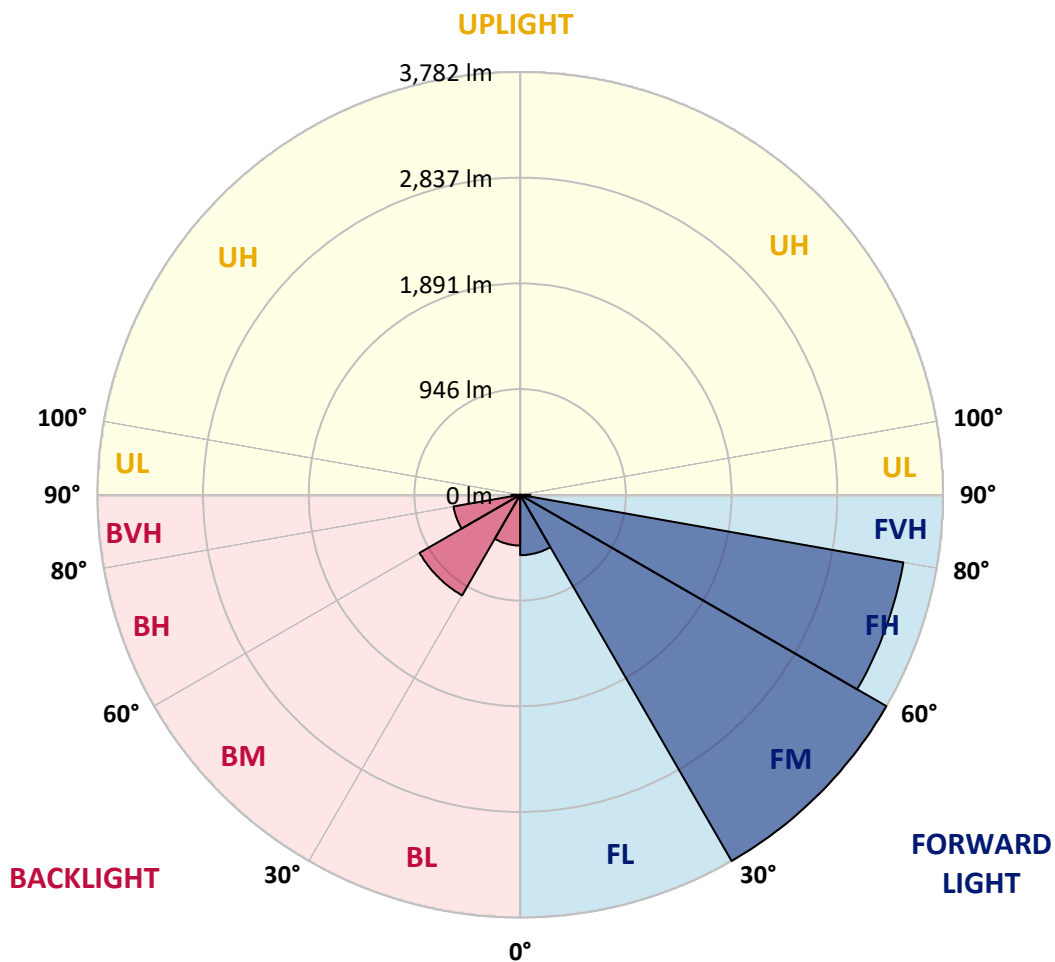
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.7	5.4			
FM	(30°-60°)	3782.2	37.6			
FH	(60°-80°)	3480.5	34.6			G2/5000
FVH	(80°-90°)	90.6	0.9			G1/100
BL	(0°-30°)	454.2	4.5	B1/500		
BM	(30°-60°)	1038.7	10.3	B2/2500		
BH	(60°-80°)	605.3	6.0	B2/1000		G2/1000
BVH	(80°-90°)	76.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5
2.5°	1230.8	1231.2	1232.2	1236.1	1239.5	1238.6	1239.0	1237.1	1236.6	1233.7	1236.6
5°	1215.3	1216.7	1217.2	1223.4	1227.3	1228.4	1226.9	1224.5	1221.5	1218.6	1220.1
7.5°	1179.8	1183.7	1184.1	1192.9	1199.2	1207.5	1207.9	1208.4	1207.0	1205.0	1207.9
10°	1157.4	1158.3	1157.9	1164.1	1169.0	1178.2	1183.7	1192.9	1196.8	1197.7	1199.6
12.5°	1155.9	1154.9	1153.5	1153.5	1152.0	1155.9	1165.7	1178.7	1188.0	1190.9	1193.4
15°	1171.5	1171.0	1166.1	1158.8	1149.6	1146.6	1154.9	1169.5	1181.7	1188.0	1190.4
17.5°	1206.5	1203.5	1195.7	1179.3	1159.3	1151.5	1152.5	1164.6	1178.7	1187.0	1189.5
20°	1270.6	1270.6	1254.1	1223.0	1187.5	1169.0	1160.2	1167.6	1181.2	1192.4	1195.7
22.5°	1381.5	1382.5	1354.8	1303.8	1243.9	1204.5	1182.6	1181.2	1197.3	1209.8	1213.7
25°	1538.6	1534.7	1495.8	1422.8	1331.9	1266.7	1228.9	1220.1	1233.7	1247.8	1252.7
27.5°	1721.4	1707.3	1661.2	1573.1	1455.5	1360.1	1301.8	1287.7	1300.8	1316.8	1321.8
30°	1902.4	1887.8	1832.8	1736.6	1605.7	1485.1	1401.4	1378.6	1397.0	1420.0	1422.8
32.5°	2083.2	2083.2	2022.0	1909.6	1767.1	1634.4	1534.2	1507.0	1537.6	1565.3	1571.7
35°	2299.6	2300.6	2241.3	2106.1	1952.9	1812.4	1702.0	1682.0	1728.3	1747.7	1762.7
37.5°	2565.7	2571.0	2494.7	2331.2	2163.4	2015.6	1884.4	1857.1	1903.3	1956.3	2005.0
40°	2853.0	2859.9	2775.7	2574.4	2406.6	2252.0	2109.9	2060.8	2137.7	2238.8	2301.5
42.5°	3127.3	3162.2	3081.1	2874.0	2693.5	2533.5	2389.6	2318.1	2414.4	2567.1	2621.5
45°	3523.6	3548.9	3407.3	3219.6	3049.9	2871.0	2680.4	2605.0	2739.7	2932.3	2943.4
47.5°	3787.7	3768.7	3696.7	3580.0	3472.5	3305.3	3018.3	2935.7	3114.7	3341.3	3278.6
50°	3928.2	3934.1	3924.3	3931.1	3935.0	3829.9	3432.7	3319.4	3532.9	3806.6	3662.2
52.5°	4059.5	4020.6	4052.7	4212.2	4404.7	4365.9	3883.4	3765.3	3981.2	4323.1	4067.8
55°	4056.6	3997.3	4101.8	4383.3	4801.1	4845.8	4389.7	4253.5	4455.4	4876.9	4497.6
57.5°	3913.1	3916.1	4077.0	4445.6	5077.3	5297.0	4977.1	4772.9	4958.1	5438.1	4890.0
60°	3715.7	3742.5	3974.4	4435.4	5298.6	5667.1	5697.7	5332.5	5450.8	5948.3	5214.9
62.5°	3397.2	3425.4	3745.3	4329.3	5265.0	6023.5	6349.4	5967.7	5965.7	6257.5	5310.2
65°	2894.8	2886.6	3222.6	3933.0	4983.4	6287.2	6996.7	6516.7	6353.8	6262.3	5118.6
67.5°	2134.8	2097.9	2386.2	2995.5	4142.1	5991.9	7377.4	6802.6	6486.0	5850.5	4533.1
70°	1107.8	1070.8	1304.2	1749.1	2724.1	4676.6	6955.8	6654.8	6193.8	4904.1	3551.3
72.5°	473.6	467.3	562.1	767.3	1317.9	2697.4	5454.2	5760.0	5314.5	3653.9	2441.6
75°	318.5	316.6	352.1	418.2	592.8	1094.7	3413.2	4088.6	3888.3	2265.6	1373.3
77.5°	249.9	247.6	268.4	300.5	384.1	431.8	1514.8	2195.0	2031.7	986.2	601.1
80°	195.5	193.5	206.6	224.1	276.2	272.3	498.5	873.4	676.0	377.9	292.3
82.5°	154.2	154.2	164.9	165.3	196.0	185.8	260.1	384.6	337.5	220.2	178.9
85°	141.1	141.1	152.2	123.5	127.9	117.2	161.4	228.0	214.0	90.4	77.8
87.5°	71.0	69.0	127.9	109.5	69.6	62.2	78.8	110.4	118.7	50.1	38.9
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°	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5	1241.5
2.5°	1235.6	1235.1	1236.1	1236.6	1240.5	1245.9	1248.3	1251.7	1253.6	1252.7
5°	1221.1	1222.0	1225.9	1228.9	1235.6	1244.4	1249.2	1253.1	1256.6	1255.1
7.5°	1208.9	1211.4	1217.2	1219.6	1223.4	1225.9	1225.4	1226.9	1229.8	1226.4
10°	1202.1	1205.0	1209.4	1206.0	1196.8	1183.7	1171.5	1165.1	1167.1	1164.6
12.5°	1195.3	1199.2	1195.7	1179.8	1154.0	1136.9	1127.7	1128.6	1133.0	1134.0
15°	1191.4	1192.9	1178.2	1148.2	1121.9	1119.4	1124.3	1123.3	1123.8	1123.8
17.5°	1191.4	1187.5	1160.2	1130.2	1118.9	1114.6	1099.5	1080.5	1072.3	1069.3
20°	1197.7	1187.5	1154.4	1134.5	1110.2	1072.8	1032.9	997.9	982.3	977.9
22.5°	1216.7	1199.2	1171.0	1136.4	1067.3	1004.6	941.4	899.6	871.5	866.5
25°	1255.1	1235.6	1203.5	1110.7	999.3	909.8	837.9	791.2	763.0	759.1
27.5°	1322.2	1309.6	1221.1	1053.7	908.9	813.0	746.4	710.4	689.6	688.1
30°	1423.3	1417.0	1212.3	969.7	797.5	719.2	687.1	666.2	650.6	650.2
32.5°	1584.8	1533.7	1183.7	867.1	695.9	652.5	639.4	626.9	614.7	614.7
35°	1792.4	1628.0	1129.1	757.2	634.1	615.6	599.1	579.2	563.1	562.1
37.5°	2036.6	1686.4	1031.4	668.6	605.0	590.9	566.5	536.8	508.6	503.8
40°	2283.1	1703.9	893.8	614.2	586.5	566.0	536.3	501.3	474.1	472.7
42.5°	2509.2	1670.4	747.9	576.7	567.9	540.7	509.6	478.5	457.2	456.6
45°	2698.9	1583.3	625.3	541.2	548.5	517.9	490.2	464.9	448.4	445.0
47.5°	2877.4	1460.3	539.3	503.8	529.1	505.2	481.9	458.1	442.0	439.6
50°	3084.5	1327.6	478.9	467.3	512.1	500.8	488.7	463.9	437.2	434.2
52.5°	3335.4	1212.8	431.8	435.3	498.9	506.7	506.3	480.5	433.7	429.8
55°	3615.5	1085.4	396.3	409.0	493.6	517.4	510.6	496.0	436.7	430.9
57.5°	3891.2	936.6	371.5	389.0	485.8	516.4	489.7	468.8	443.4	435.3
60°	4097.9	736.7	352.5	371.5	468.8	500.4	466.9	439.2	442.0	435.7
62.5°	4111.5	569.5	329.7	356.4	443.0	484.4	451.7	426.0	448.4	442.5
65°	3869.8	430.4	307.8	338.5	415.3	474.1	437.2	418.7	461.5	455.1
67.5°	3258.1	346.3	289.3	320.0	387.6	452.8	424.0	411.8	473.1	462.0
70°	2352.2	295.2	271.4	297.6	362.7	428.4	412.4	399.8	441.5	424.0
72.5°	1448.2	255.7	250.9	267.9	343.8	403.1	394.9	376.9	397.8	383.7
75°	723.1	221.8	228.0	238.8	317.0	374.4	365.7	347.7	350.6	347.7
77.5°	346.3	189.7	201.3	209.6	282.5	341.9	332.7	314.1	310.8	311.2
80°	219.3	158.6	169.7	175.5	252.4	303.9	294.7	276.2	315.1	292.3
82.5°	137.2	128.9	131.8	142.5	219.8	264.5	252.4	235.9	284.0	224.6
85°	75.9	89.9	93.8	103.1	169.2	221.3	209.1	188.2	168.8	165.8
87.5°	45.2	53.5	54.9	61.8	113.8	160.0	141.5	134.2	111.4	110.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)