

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: P192240

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192240
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-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9842 lumens
Efficiency: N/A
Efficacy: 115.8 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

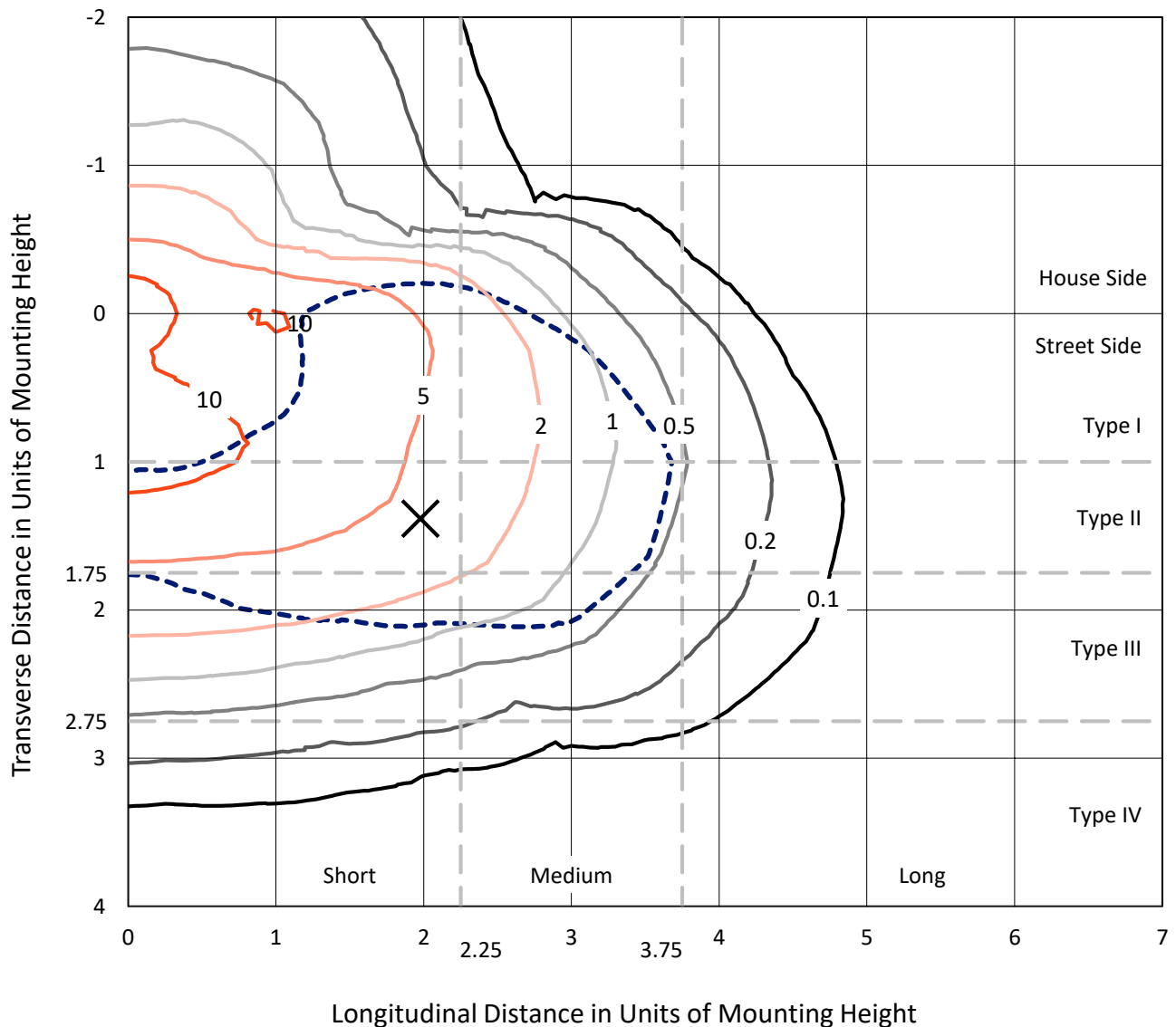
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

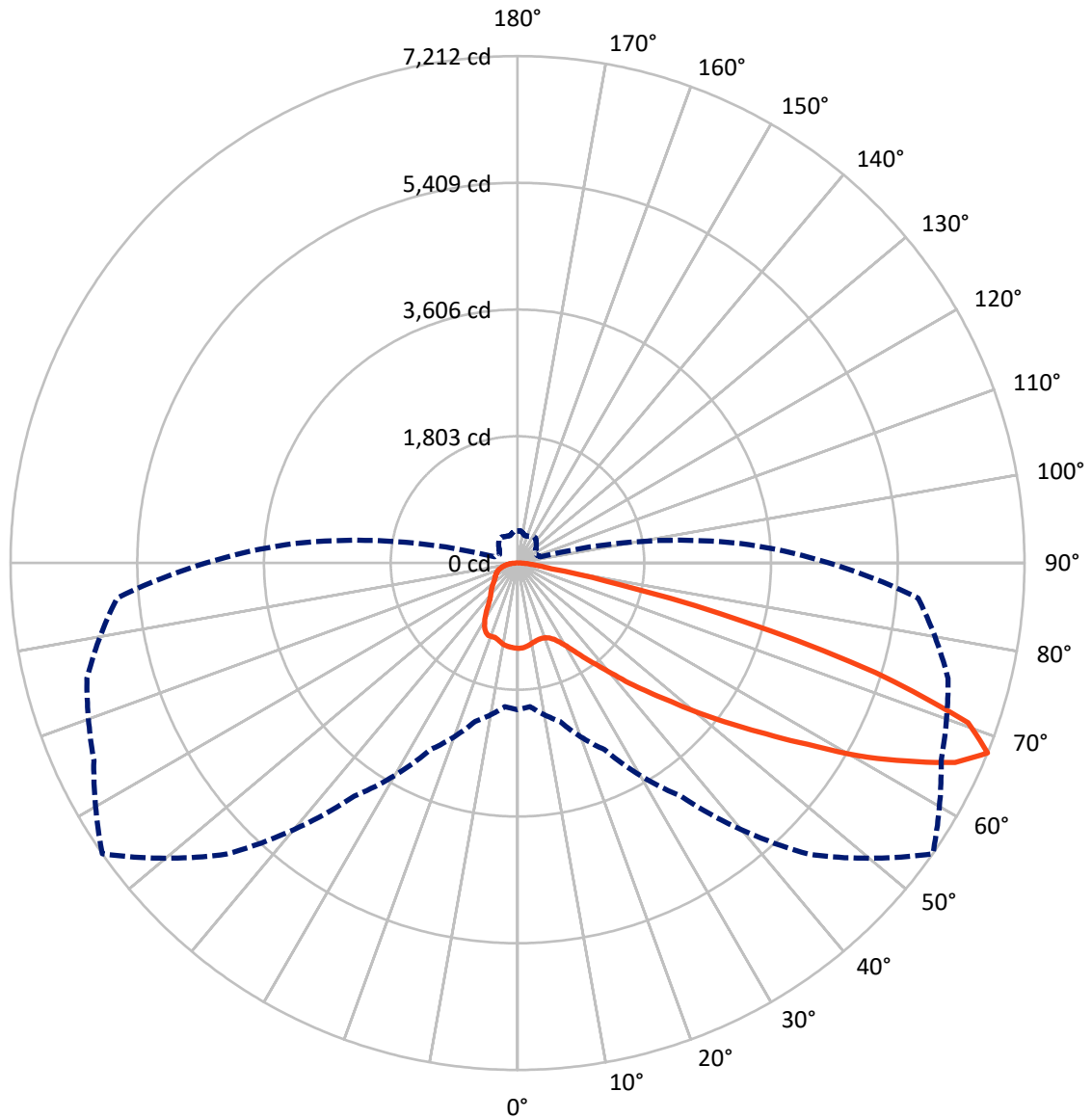
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 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	2126.1	0.0	2126.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7715.9	0.0	7715.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	9842.0	0.0	9842.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.2
10°-20°	320.8	3.3
20°-30°	537.4	5.5
30°-40°	883.7	9.0
40°-50°	1487.6	15.1
50°-60°	2341.4	23.8
60°-70°	2794.2	28.4
70°-80°	1199.9	12.2
80°-90°	163.6	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°	9842.0	100.0
0°-180°	9842.0	100.0



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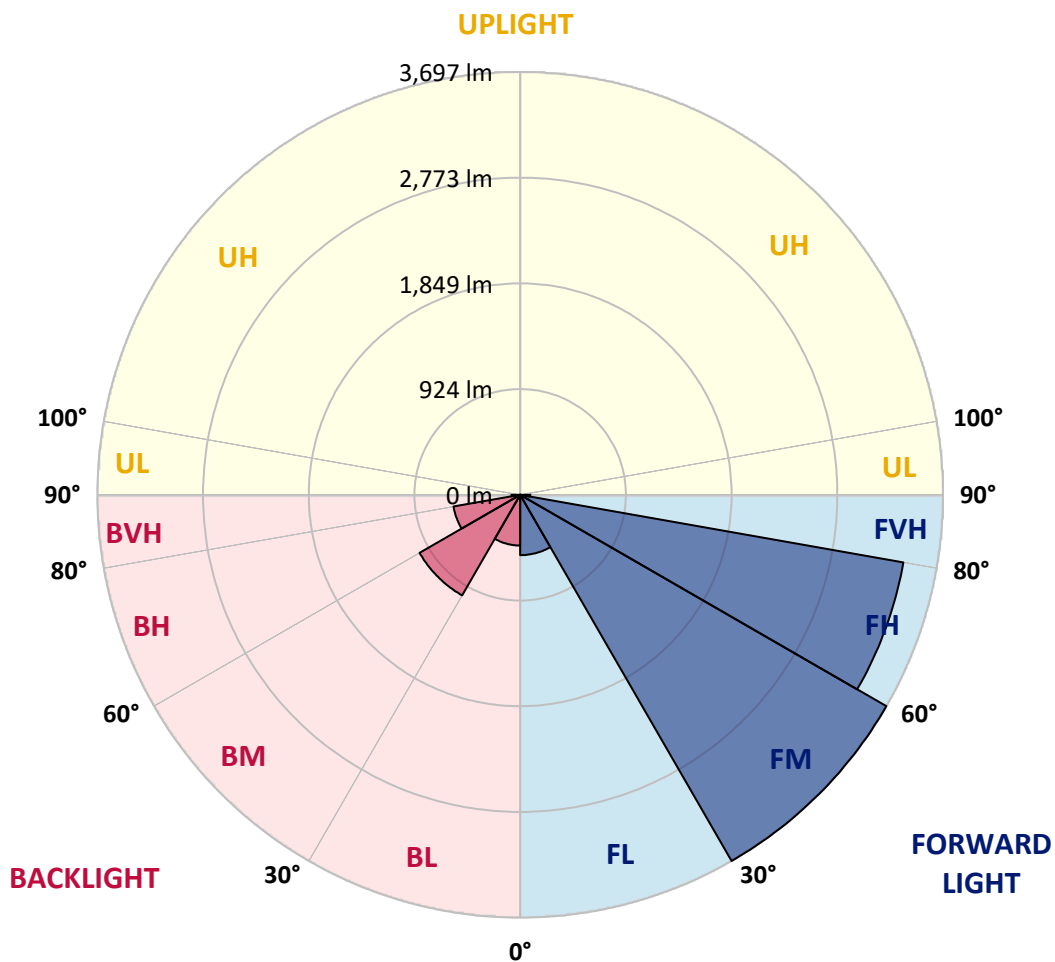
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	527.6	5.4			
FM	(30°-60°)	3697.4	37.6			
FH	(60°-80°)	3402.4	34.6			G2/5000
FVH	(80°-90°)	88.6	0.9			G1/100
BL	(0°-30°)	444.0	4.5	B1/500		
BM	(30°-60°)	1015.4	10.3	B2/2500		
BH	(60°-80°)	591.7	6.0	B2/1000		G2/1000
BVH	(80°-90°)	75.0	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°	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6
2.5°	1203.2	1203.6	1204.6	1208.4	1211.7	1210.8	1211.2	1209.3	1208.9	1206.0	1208.9
5°	1188.0	1189.4	1189.9	1196.0	1199.8	1200.8	1199.4	1197.0	1194.1	1191.3	1192.7
7.5°	1153.3	1157.1	1157.5	1166.1	1172.3	1180.4	1180.8	1181.3	1179.9	1178.0	1180.8
10°	1131.4	1132.3	1131.9	1138.0	1142.8	1151.8	1157.1	1166.1	1169.9	1170.8	1172.7
12.5°	1130.0	1129.0	1127.6	1127.6	1126.2	1130.0	1139.5	1152.3	1161.3	1164.2	1166.6
15°	1145.2	1144.7	1139.9	1132.8	1123.8	1120.9	1129.0	1143.3	1155.2	1161.3	1163.7
17.5°	1179.4	1176.5	1168.9	1152.8	1133.3	1125.7	1126.6	1138.5	1152.3	1160.4	1162.8
20°	1242.1	1242.1	1226.0	1195.6	1160.9	1142.8	1134.2	1141.4	1154.7	1165.6	1168.9
22.5°	1350.5	1351.5	1324.4	1274.5	1216.0	1177.5	1156.1	1154.7	1170.4	1182.7	1186.5
25°	1504.1	1500.3	1462.2	1390.9	1302.0	1238.3	1201.3	1192.7	1206.0	1219.8	1224.6
27.5°	1682.8	1669.0	1623.9	1537.8	1422.8	1329.6	1272.6	1258.8	1271.6	1287.3	1292.1
30°	1859.7	1845.4	1791.7	1697.6	1569.7	1451.8	1370.0	1347.7	1365.7	1388.1	1390.9
32.5°	2036.5	2036.5	1976.6	1866.8	1727.5	1597.7	1499.8	1473.2	1503.1	1530.2	1536.4
35°	2248.0	2249.0	2191.0	2058.8	1909.1	1771.7	1663.8	1644.3	1689.5	1708.5	1723.2
37.5°	2508.1	2513.3	2438.7	2278.9	2114.9	1970.4	1842.1	1815.4	1860.6	1912.4	1960.0
40°	2789.0	2795.7	2713.4	2516.6	2352.6	2201.5	2062.6	2014.6	2089.7	2188.6	2249.9
42.5°	3057.1	3091.3	3012.0	2809.5	2633.1	2476.7	2336.0	2266.1	2360.2	2509.5	2562.7
45°	3444.5	3469.3	3330.9	3147.4	2981.5	2806.6	2620.3	2546.6	2678.2	2866.5	2877.4
47.5°	3702.7	3684.1	3613.8	3499.7	3394.6	3231.1	2950.6	2869.8	3044.8	3266.3	3205.0
50°	3840.1	3845.8	3836.3	3842.9	3846.7	3744.0	3355.7	3244.9	3453.6	3721.2	3580.0
52.5°	3968.4	3930.4	3961.8	4117.7	4305.9	4267.9	3796.3	3680.8	3891.9	4226.1	3976.5
55°	3965.6	3907.6	4009.8	4285.0	4693.4	4737.1	4291.2	4158.1	4355.4	4767.5	4396.7
57.5°	3825.3	3828.2	3985.5	4345.9	4963.4	5178.2	4865.4	4665.8	4846.9	5316.1	4780.3
60°	3632.3	3658.5	3885.2	4335.9	5179.7	5540.0	5569.9	5212.9	5328.5	5814.8	5097.9
62.5°	3321.0	3348.5	3661.3	4232.2	5146.9	5888.4	6206.9	5833.8	5831.9	6117.1	5191.1
65°	2829.9	2821.8	3150.3	3844.8	4871.6	6146.1	6839.7	6370.5	6211.2	6121.8	5003.8
67.5°	2086.9	2050.8	2332.7	2928.3	4049.2	5857.5	7211.9	6650.0	6340.5	5719.2	4431.4
70°	1082.9	1046.8	1274.9	1709.9	2663.0	4571.7	6799.7	6505.5	6054.8	4794.1	3471.6
72.5°	463.0	456.8	549.5	750.1	1288.3	2636.9	5331.8	5630.8	5195.3	3571.9	2386.8
75°	311.4	309.5	344.2	408.8	579.5	1070.1	3336.6	3996.9	3801.1	2214.8	1342.5
77.5°	244.3	242.0	262.4	293.8	375.5	422.1	1480.8	2145.8	1986.1	964.1	587.6
80°	191.1	189.2	202.0	219.1	270.0	266.2	487.3	853.8	660.8	369.4	285.7
82.5°	150.7	150.7	161.2	161.6	191.6	181.6	254.3	376.0	329.9	215.3	174.9
85°	137.9	137.9	148.8	120.7	125.0	114.6	157.8	222.9	209.2	88.4	76.1
87.5°	69.4	67.5	125.0	107.0	68.0	60.8	77.0	107.9	116.0	49.0	38.0
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°	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6	1213.6
2.5°	1207.9	1207.4	1208.4	1208.9	1212.7	1217.9	1220.3	1223.6	1225.5	1224.6
5°	1193.7	1194.6	1198.4	1201.3	1207.9	1216.5	1221.2	1225.0	1228.4	1226.9
7.5°	1181.8	1184.2	1189.9	1192.2	1196.0	1198.4	1197.9	1199.4	1202.2	1198.9
10°	1175.1	1178.0	1182.3	1178.9	1169.9	1157.1	1145.2	1139.0	1140.9	1138.5
12.5°	1168.5	1172.3	1168.9	1153.3	1128.1	1111.4	1102.4	1103.3	1107.6	1108.6
15°	1164.7	1166.1	1151.8	1122.4	1096.7	1094.3	1099.1	1098.1	1098.6	1098.6
17.5°	1164.7	1160.9	1134.2	1104.8	1093.8	1089.6	1074.8	1056.3	1048.2	1045.3
20°	1170.8	1160.9	1128.5	1109.0	1085.3	1048.7	1009.7	975.5	960.3	956.0
22.5°	1189.4	1172.3	1144.7	1110.9	1043.4	982.1	920.3	879.4	851.9	847.1
25°	1226.9	1207.9	1176.5	1085.8	976.9	889.4	819.1	773.4	745.9	742.1
27.5°	1292.5	1280.2	1193.7	1030.1	888.5	794.8	729.7	694.5	674.1	672.7
30°	1391.4	1385.2	1185.1	947.9	779.6	703.1	671.7	651.3	636.0	635.6
32.5°	1549.2	1499.3	1157.1	847.6	680.3	637.9	625.1	612.8	600.9	600.9
35°	1752.2	1591.5	1103.8	740.2	619.9	601.8	585.7	566.2	550.5	549.5
37.5°	1990.9	1648.6	1008.3	653.6	591.4	577.6	553.8	524.8	497.2	492.5
40°	2231.9	1665.7	873.7	600.4	573.3	553.3	524.3	490.1	463.5	462.1
42.5°	2452.9	1632.9	731.1	563.8	555.2	528.6	498.2	467.8	446.9	446.4
45°	2638.3	1547.8	611.3	529.1	536.2	506.3	479.2	454.5	438.3	435.0
47.5°	2812.8	1427.5	527.2	492.5	517.2	493.9	471.1	447.8	432.1	429.7
50°	3015.3	1297.8	468.2	456.8	500.6	489.6	477.7	453.5	427.4	424.5
52.5°	3260.6	1185.6	422.1	425.5	487.7	495.3	494.9	469.7	424.0	420.2
55°	3534.4	1061.0	387.4	399.8	482.5	505.8	499.1	484.9	426.9	421.2
57.5°	3803.9	915.6	363.2	380.3	474.9	504.8	478.7	458.3	433.5	425.5
60°	4006.0	720.2	344.6	363.2	458.3	489.2	456.4	429.3	432.1	425.9
62.5°	4019.3	556.7	322.3	348.4	433.1	473.5	441.6	416.4	438.3	432.6
65°	3783.0	420.7	300.9	330.9	406.0	463.5	427.4	409.3	451.1	444.9
67.5°	3185.0	338.5	282.8	312.8	378.9	442.6	414.5	402.6	462.5	451.6
70°	2299.4	288.6	265.3	290.9	354.6	418.8	403.1	390.8	431.6	414.5
72.5°	1415.7	250.0	245.3	261.9	336.1	394.1	386.0	368.4	388.9	375.1
75°	706.9	216.8	222.9	233.4	309.9	366.0	357.5	339.9	342.7	339.9
77.5°	338.5	185.4	196.8	204.9	276.2	334.2	325.2	307.1	303.8	304.2
80°	214.4	155.0	165.9	171.6	246.7	297.1	288.1	270.0	308.0	285.7
82.5°	134.1	126.0	128.8	139.3	214.9	258.6	246.7	230.6	277.6	219.6
85°	74.2	87.9	91.7	100.8	165.4	216.3	204.4	184.0	165.0	162.1
87.5°	44.2	52.3	53.7	60.4	111.2	156.4	138.3	131.2	108.9	108.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)