

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: P193971

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193971
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-03-LED-E1-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9772 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

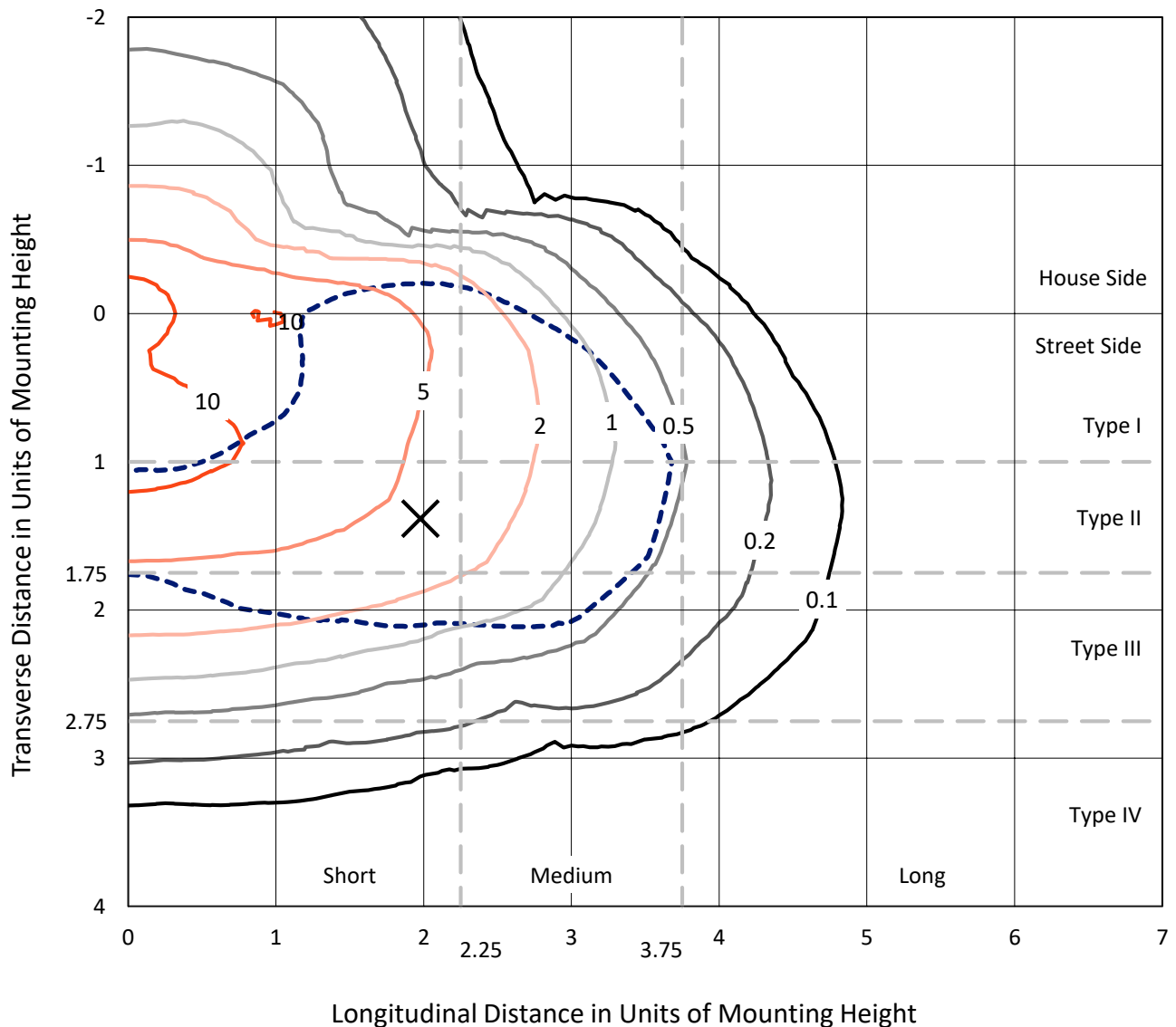
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

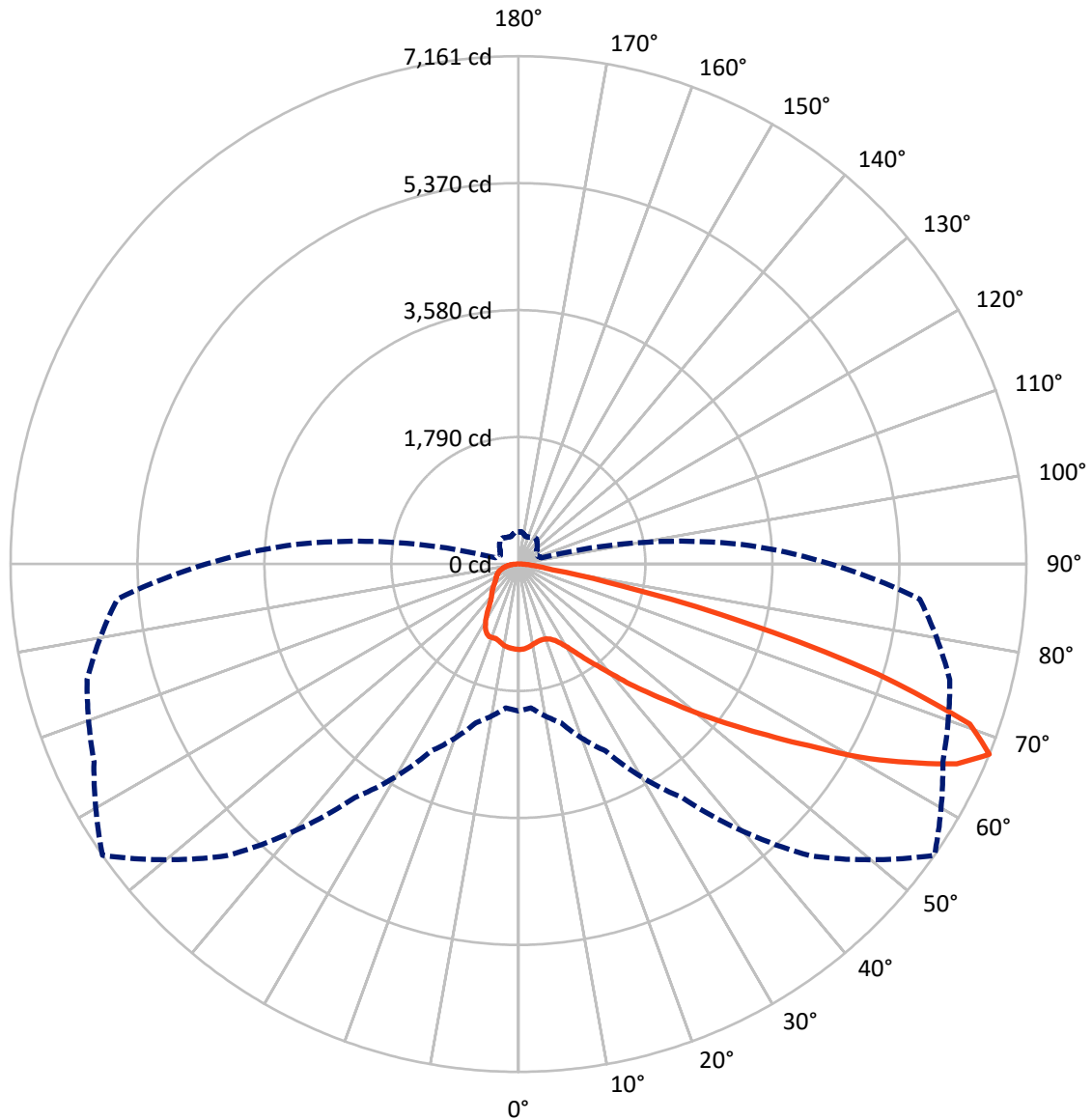
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 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	2111.0	0.0	2111.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7661.0	0.0	7661.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	9772.0	0.0	9772.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.2
10°-20°	318.5	3.3
20°-30°	533.6	5.5
30°-40°	877.5	9.0
40°-50°	1477.0	15.1
50°-60°	2324.8	23.8
60°-70°	2774.3	28.4
70°-80°	1191.4	12.2
80°-90°	162.4	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°	9772.0	100.0
0°-180°	9772.0	100.0



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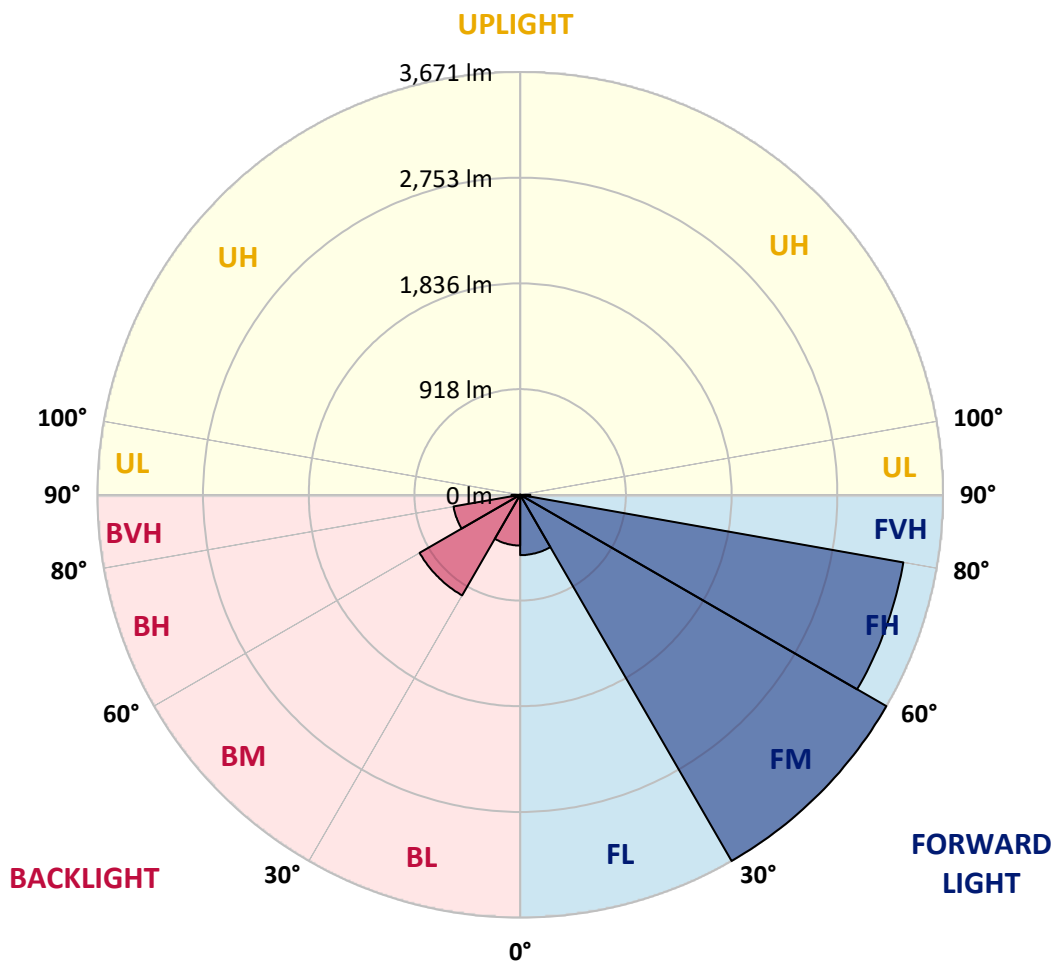
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.8	5.4			
FM	(30°-60°)	3671.1	37.6			
FH	(60°-80°)	3378.2	34.6			G2/5000
FVH	(80°-90°)	87.9	0.9			G1/100
BL	(0°-30°)	440.8	4.5	B1/500		
BM	(30°-60°)	1008.2	10.3	B2/2500		
BH	(60°-80°)	587.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	74.5	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°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1194.6	1195.1	1196.0	1199.8	1203.1	1202.2	1202.6	1200.7	1200.3	1197.4	1200.3
5°	1179.5	1180.9	1181.4	1187.5	1191.3	1192.3	1190.8	1188.5	1185.6	1182.8	1184.2
7.5°	1145.1	1148.8	1149.3	1157.8	1163.9	1172.0	1172.4	1172.9	1171.5	1169.6	1172.4
10°	1123.3	1124.3	1123.8	1129.9	1134.7	1143.6	1148.8	1157.8	1161.6	1162.5	1164.4
12.5°	1121.9	1121.0	1119.6	1119.6	1118.1	1121.9	1131.4	1144.1	1153.1	1155.9	1158.3
15°	1137.0	1136.6	1131.8	1124.8	1115.8	1113.0	1121.0	1135.1	1146.9	1153.1	1155.4
17.5°	1171.0	1168.2	1160.6	1144.6	1125.2	1117.7	1118.6	1130.4	1144.1	1152.1	1154.5
20°	1233.3	1233.3	1217.3	1187.1	1152.6	1134.7	1126.2	1133.3	1146.5	1157.3	1160.6
22.5°	1340.9	1341.9	1315.0	1265.4	1207.4	1169.1	1147.9	1146.5	1162.0	1174.3	1178.1
25°	1493.4	1489.6	1451.8	1381.0	1292.8	1229.5	1192.7	1184.2	1197.4	1211.1	1215.9
27.5°	1670.8	1657.2	1612.3	1526.9	1412.7	1320.2	1263.5	1249.8	1262.6	1278.2	1282.9
30°	1846.4	1832.3	1778.9	1685.5	1558.5	1441.5	1360.3	1338.1	1356.0	1378.2	1381.0
32.5°	2022.0	2022.0	1962.5	1853.5	1715.2	1586.4	1489.1	1462.7	1492.4	1519.3	1525.5
35°	2232.0	2233.0	2175.4	2044.2	1895.5	1759.1	1652.0	1632.6	1677.5	1696.3	1711.0
37.5°	2490.2	2495.4	2421.3	2262.7	2099.9	1956.4	1829.0	1802.5	1847.4	1898.8	1946.0
40°	2769.2	2775.8	2694.1	2498.7	2335.9	2185.8	2048.0	2000.3	2074.9	2173.0	2233.9
42.5°	3035.4	3069.4	2990.5	2789.5	2614.4	2459.1	2319.4	2250.0	2343.4	2491.6	2544.5
45°	3420.1	3444.6	3307.2	3125.1	2960.3	2786.6	2601.6	2528.5	2659.2	2846.1	2857.0
47.5°	3676.3	3657.9	3588.1	3474.8	3370.5	3208.1	2929.7	2849.4	3023.1	3243.1	3182.2
50°	3812.7	3818.4	3809.0	3815.6	3819.4	3717.4	3331.8	3221.8	3429.0	3694.7	3554.6
52.5°	3940.2	3902.4	3933.6	4088.4	4275.3	4237.5	3769.3	3654.6	3864.2	4196.0	3948.2
55°	3937.4	3879.8	3981.2	4254.5	4660.0	4703.4	4260.7	4128.5	4324.4	4733.6	4365.4
57.5°	3798.1	3800.9	3957.2	4314.9	4928.1	5141.4	4830.8	4632.6	4812.4	5278.3	4746.3
60°	3606.5	3632.4	3857.6	4305.0	5142.8	5500.6	5530.3	5175.9	5290.6	5773.4	5061.6
62.5°	3297.3	3324.7	3635.3	4202.1	5110.3	5846.6	6162.8	5792.3	5790.4	6073.6	5154.1
65°	2809.8	2801.7	3127.9	3817.5	4837.0	6102.4	6791.0	6325.2	6167.0	6078.3	4968.2
67.5°	2072.0	2036.2	2316.1	2907.5	4020.4	5815.9	7160.6	6602.7	6295.4	5678.5	4399.9
70°	1075.2	1039.3	1265.9	1697.8	2644.1	4539.1	6751.4	6459.2	6011.8	4760.0	3447.0
72.5°	459.7	453.6	545.6	744.8	1279.1	2618.1	5293.9	5590.7	5158.4	3546.5	2369.9
75°	309.2	307.3	341.7	405.9	575.4	1062.5	3312.9	3968.5	3774.0	2199.0	1332.9
77.5°	242.6	240.2	260.5	291.7	372.9	419.1	1470.3	2130.6	1972.0	957.2	583.4
80°	189.7	187.9	200.6	217.6	268.1	264.3	483.8	847.7	656.1	366.7	283.7
82.5°	149.6	149.6	160.0	160.5	190.2	180.3	252.5	373.3	327.6	213.8	173.7
85°	136.9	136.9	147.7	119.9	124.1	113.7	156.7	221.4	207.7	87.8	75.5
87.5°	68.9	67.0	124.1	106.2	67.5	60.4	76.5	107.1	115.2	48.6	37.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1199.3	1198.9	1199.8	1200.3	1204.1	1209.2	1211.6	1214.9	1216.8	1215.9
5°	1185.2	1186.1	1189.9	1192.7	1199.3	1207.8	1212.5	1216.3	1219.6	1218.2
7.5°	1173.4	1175.7	1181.4	1183.8	1187.5	1189.9	1189.4	1190.8	1193.7	1190.4
10°	1166.8	1169.6	1173.8	1170.5	1161.6	1148.8	1137.0	1130.9	1132.8	1130.4
12.5°	1160.2	1163.9	1160.6	1145.1	1120.0	1103.5	1094.5	1095.5	1099.7	1100.7
15°	1156.4	1157.8	1143.6	1114.4	1088.9	1086.5	1091.2	1090.3	1090.8	1090.8
17.5°	1156.4	1152.6	1126.2	1096.9	1086.1	1081.8	1067.2	1048.8	1040.7	1037.9
20°	1162.5	1152.6	1120.5	1101.2	1077.6	1041.2	1002.5	968.5	953.4	949.2
22.5°	1180.9	1163.9	1136.6	1103.0	1036.0	975.1	913.8	873.2	845.8	841.1
25°	1218.2	1199.3	1168.2	1078.0	969.9	883.1	813.2	767.9	740.6	736.8
27.5°	1283.3	1271.1	1185.2	1022.8	882.2	789.2	724.5	689.6	669.3	667.9
30°	1381.5	1375.4	1176.7	941.2	774.1	698.1	666.9	646.6	631.5	631.1
32.5°	1538.2	1488.7	1148.8	841.6	675.4	633.4	620.7	608.4	596.6	596.6
35°	1739.8	1580.2	1096.0	734.9	615.5	597.5	581.5	562.1	546.6	545.6
37.5°	1976.7	1636.9	1001.1	649.0	587.2	573.5	549.9	521.1	493.7	489.0
40°	2216.0	1653.9	867.5	596.1	569.2	549.4	520.6	486.6	460.2	458.8
42.5°	2435.5	1621.3	725.9	559.8	551.3	524.9	494.6	464.4	443.7	443.2
45°	2619.6	1536.8	607.0	525.3	532.4	502.7	475.8	451.2	435.2	431.9
47.5°	2792.8	1417.4	523.4	489.0	513.5	490.4	467.7	444.6	429.0	426.7
50°	2993.8	1288.5	464.9	453.6	497.0	486.2	474.4	450.3	424.3	421.5
52.5°	3237.4	1177.1	419.1	422.4	484.3	491.8	491.3	466.3	421.0	417.2
55°	3509.3	1053.5	384.7	396.9	479.1	502.2	495.6	481.4	423.8	418.2
57.5°	3776.9	909.1	360.6	377.6	471.5	501.3	475.3	455.0	430.5	422.4
60°	3977.5	715.1	342.2	360.6	455.0	485.7	453.1	426.2	429.0	422.9
62.5°	3990.7	552.7	320.0	346.0	430.0	470.1	438.5	413.5	435.2	429.5
65°	3756.1	417.7	298.8	328.5	403.1	460.2	424.3	406.4	447.9	441.8
67.5°	3162.3	336.1	280.8	310.6	376.2	439.4	411.6	399.8	459.2	448.4
70°	2283.0	286.5	263.4	288.9	352.1	415.8	400.2	388.0	428.6	411.6
72.5°	1405.6	248.3	243.5	260.1	333.7	391.3	383.3	365.8	386.1	372.4
75°	701.9	215.2	221.4	231.7	307.7	363.4	354.9	337.5	340.3	337.5
77.5°	336.1	184.1	195.4	203.4	274.2	331.8	322.8	304.9	301.6	302.1
80°	212.9	153.9	164.7	170.4	245.0	295.0	286.0	268.1	305.9	283.7
82.5°	133.1	125.1	127.9	138.3	213.3	256.8	245.0	228.9	275.6	218.1
85°	73.6	87.3	91.1	100.1	164.3	214.8	203.0	182.7	163.8	160.9
87.5°	43.9	51.9	53.3	59.9	110.4	155.3	137.3	130.3	108.1	107.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)