

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: P192310

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8072 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

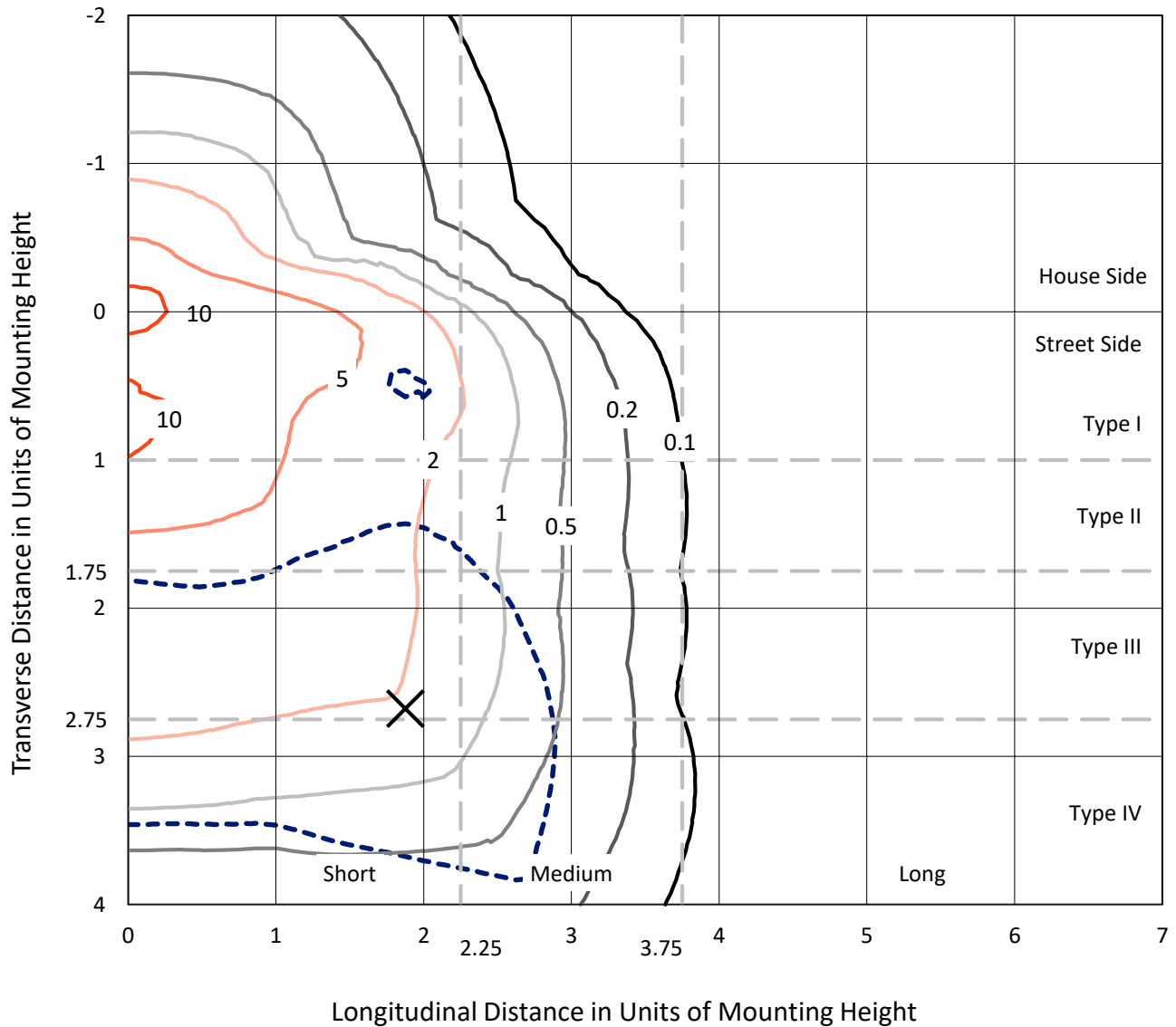


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

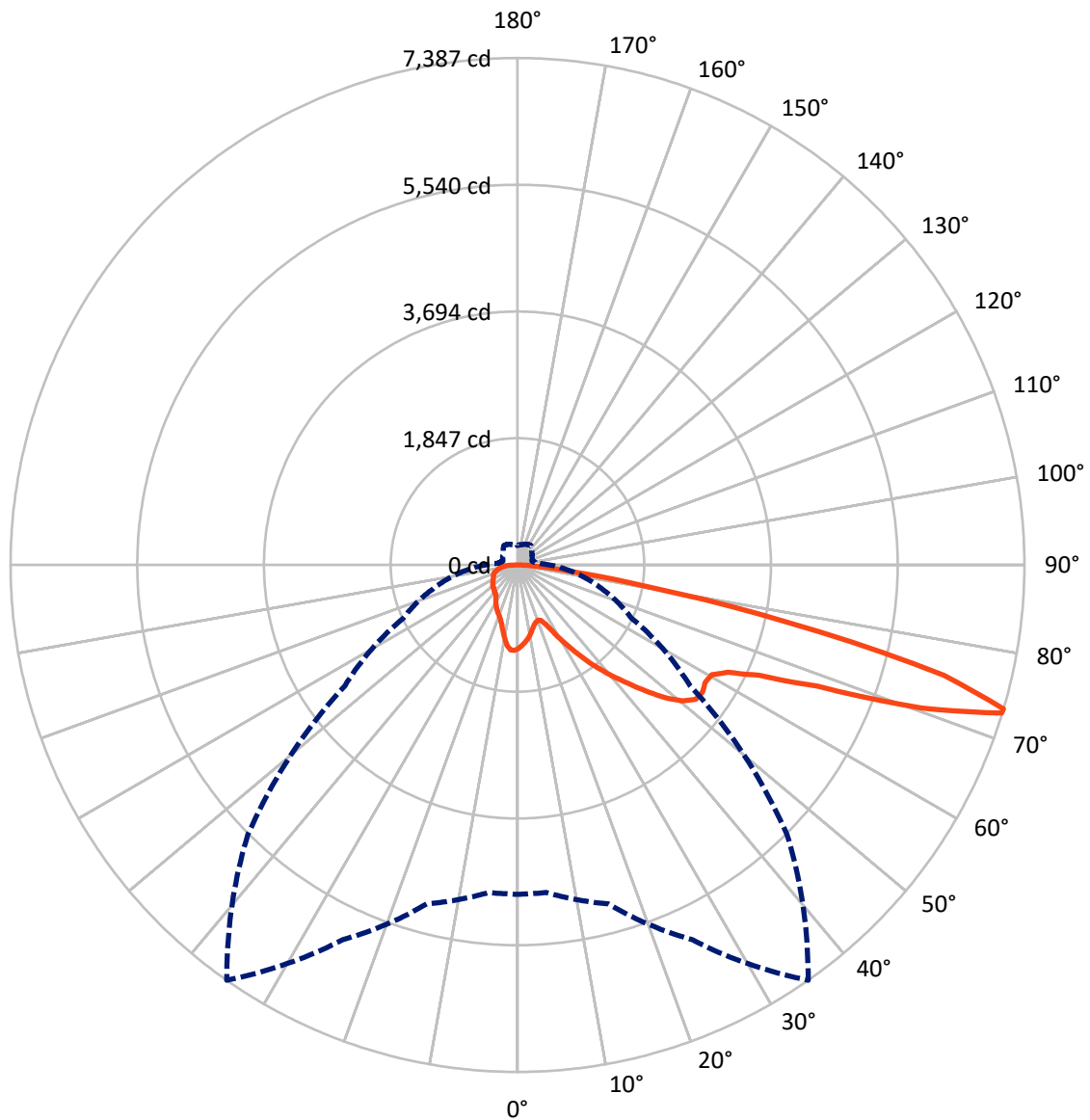


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.6	0.0	1539.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	6532.5	0.0	6532.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	8072.0	0.0	8072.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.4
10°-20°	275.3	3.4
20°-30°	445.0	5.5
30°-40°	746.2	9.2
40°-50°	1150.3	14.3
50°-60°	1543.2	19.1
60°-70°	2055.9	25.5
70°-80°	1568.0	19.4
80°-90°	177.7	2.2
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°	8072.0	100.0
0°-180°	8072.0	100.0



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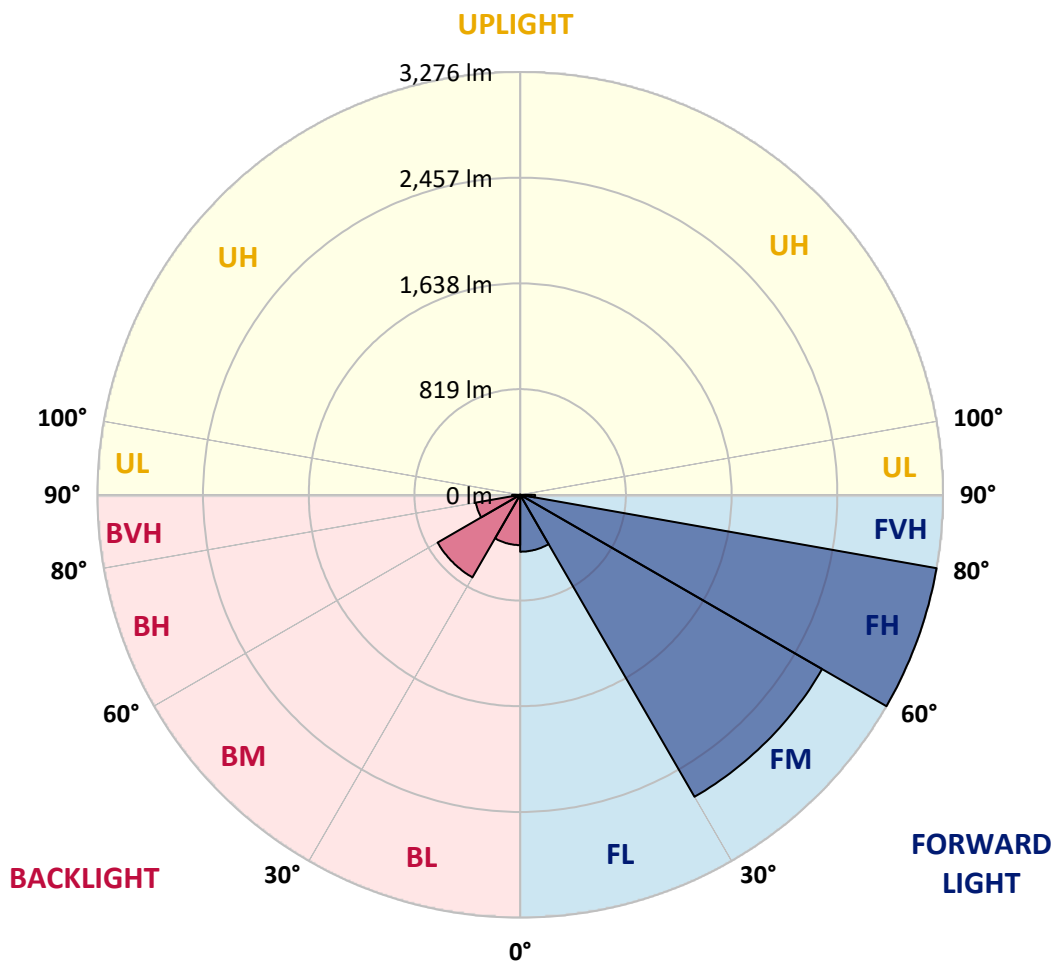
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.0	5.5			
FM	(30°-60°)	2700.9	33.5			
FH	(60°-80°)	3275.6	40.6			G2/5000
FVH	(80°-90°)	114.9	1.4			G2/225
BL	(0°-30°)	389.6	4.8	B1/500		
BM	(30°-60°)	738.8	9.2	B1/1000		
BH	(60°-80°)	348.3	4.3	B1/500		G1/500
BVH	(80°-90°)	62.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3
2.5°	1170.2	1172.6	1169.9	1173.4	1179.2	1185.4	1189.6	1195.8	1202.8	1212.5	1214.8
5°	1115.2	1118.7	1118.7	1124.9	1136.1	1146.2	1155.5	1165.6	1180.3	1197.0	1203.6
7.5°	1054.7	1056.7	1060.2	1069.5	1085.7	1100.1	1113.3	1129.5	1149.7	1171.8	1183.4
10°	981.9	984.6	990.0	1003.2	1025.3	1045.0	1064.0	1086.5	1112.1	1139.6	1154.4
12.5°	930.3	929.5	931.9	941.5	960.9	985.0	1012.5	1041.2	1072.6	1104.7	1122.6
15°	912.9	908.6	899.7	897.4	907.8	931.9	963.6	998.9	1036.5	1075.3	1097.4
17.5°	923.7	916.4	891.9	874.1	872.6	890.8	924.5	964.0	1007.4	1054.7	1082.3
20°	991.9	974.5	914.4	872.9	858.6	867.5	897.0	938.8	990.0	1052.8	1088.1
22.5°	1155.1	1129.5	1002.0	924.9	876.4	865.6	887.7	932.2	991.9	1076.8	1121.8
25°	1392.7	1356.3	1152.4	1054.3	954.3	896.6	901.6	947.4	1019.5	1132.6	1186.9
27.5°	1580.4	1556.7	1348.9	1236.9	1096.2	980.3	947.0	985.4	1075.7	1224.1	1279.6
30°	1692.0	1677.7	1559.0	1443.9	1277.2	1113.7	1033.8	1056.7	1163.7	1350.9	1396.6
32.5°	1821.5	1812.9	1754.8	1649.0	1472.6	1288.9	1171.4	1163.3	1281.5	1503.2	1524.2
35°	1955.6	1952.9	1918.8	1842.8	1682.3	1519.9	1354.0	1298.9	1409.8	1661.4	1648.2
37.5°	2080.4	2075.7	2056.0	2011.8	1901.7	1768.0	1540.0	1438.1	1548.2	1812.5	1754.0
40°	2310.3	2273.8	2206.0	2172.7	2123.4	1976.9	1687.7	1568.0	1691.6	1956.7	1845.5
42.5°	2590.5	2531.2	2404.8	2359.1	2352.1	2141.6	1788.5	1693.9	1836.2	2099.8	1935.4
45°	2811.1	2755.3	2646.3	2588.6	2614.2	2290.9	1889.7	1828.4	1985.0	2249.8	2028.1
47.5°	3046.4	2958.8	2814.6	2832.0	2887.8	2432.0	1992.8	1973.0	2148.2	2417.6	2143.2
50°	3054.9	2987.8	2924.7	3028.9	3115.8	2561.8	2121.9	2124.6	2347.9	2628.9	2296.3
52.5°	2877.8	2863.4	2963.8	3127.8	3253.0	2664.6	2268.8	2281.2	2603.3	2871.5	2464.5
55°	2815.7	2799.5	2915.4	3093.3	3271.6	2749.4	2428.1	2450.6	2912.3	3127.4	2628.5
57.5°	2966.9	2930.9	2938.6	3077.0	3226.2	2842.5	2601.8	2647.1	3247.9	3351.0	2733.9
60°	3389.4	3312.3	3165.8	3162.3	3250.7	2982.0	2802.6	2858.0	3596.8	3458.0	2692.9
62.5°	3982.1	3905.0	3630.5	3451.8	3438.7	3212.3	3049.1	3063.8	3798.4	3313.1	2442.1
65°	4623.6	4554.6	4248.0	3995.7	3874.0	3593.7	3335.5	3155.7	3732.5	2914.2	2003.3
67.5°	5402.4	5328.3	5064.8	4831.8	4714.7	4209.3	3536.7	3067.7	3314.2	2257.5	1440.0
70°	5947.0	5871.4	5767.5	5956.3	6242.8	5097.3	3562.7	2709.9	2475.4	1500.5	866.7
72.5°	5236.5	5201.2	5390.7	6185.8	7378.9	5636.1	3220.4	1973.0	1437.7	796.6	501.6
73°	4797.7	4789.9	5113.2	6024.9	7387.0	5553.2	3070.4	1833.9	1233.0	704.7	458.6
75°	2166.5	2228.9	2937.4	4601.9	6418.0	4576.0	2161.0	1052.0	696.6	486.9	346.2
77.5°	520.6	542.3	919.1	2185.4	4053.0	2727.0	979.1	520.2	445.4	343.8	252.7
80°	221.7	229.1	353.9	807.4	1908.3	1098.2	451.2	348.5	308.2	239.9	177.1
82.5°	123.3	131.0	200.8	366.3	770.2	374.4	275.2	242.7	202.7	144.6	115.1
85°	69.8	74.0	117.5	204.7	326.4	150.4	164.7	161.3	114.4	74.4	56.6
87.5°	32.9	35.7	56.6	95.0	127.9	58.9	83.7	92.3	71.7	45.4	29.5
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°	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3	1218.3
2.5°	1217.5	1224.5	1232.7	1236.9	1240.8	1245.4	1250.1	1250.1	1250.9	1251.3
5°	1209.0	1223.4	1236.1	1241.6	1242.7	1242.7	1241.6	1235.4	1229.9	1232.3
7.5°	1191.2	1212.1	1223.0	1221.0	1206.3	1189.2	1174.9	1157.5	1148.5	1147.0
10°	1165.6	1189.6	1191.6	1172.2	1135.8	1099.3	1069.1	1039.6	1025.7	1022.2
12.5°	1137.3	1159.4	1147.0	1107.1	1048.5	995.4	957.1	927.2	914.0	910.5
15°	1114.4	1129.5	1098.2	1035.4	961.7	905.5	873.7	851.6	842.3	839.6
17.5°	1102.4	1105.5	1048.1	963.3	885.0	838.1	818.3	807.8	804.3	802.4
20°	1108.2	1086.5	1000.5	896.2	822.2	789.2	784.6	781.8	781.1	779.9
22.5°	1137.3	1080.7	956.7	832.6	767.1	752.8	756.7	756.3	755.5	754.7
25°	1189.2	1085.7	914.0	772.2	721.0	717.9	724.9	724.9	721.8	721.8
27.5°	1257.9	1096.2	866.3	714.8	679.1	679.5	684.9	683.4	679.9	677.6
30°	1341.6	1102.8	810.5	663.2	640.0	638.4	640.0	633.4	622.9	622.1
32.5°	1427.2	1094.7	745.8	617.5	598.5	595.0	593.8	584.5	572.5	569.0
35°	1504.8	1064.8	679.9	581.1	559.0	551.2	556.6	553.5	542.7	540.0
37.5°	1561.4	1009.4	620.6	548.9	530.7	528.7	532.2	533.4	520.6	517.9
40°	1599.4	934.2	569.8	521.7	525.2	517.9	506.2	498.1	494.2	493.1
42.5°	1630.0	855.9	527.2	509.0	526.4	505.1	479.9	466.7	473.7	476.8
45°	1665.3	779.5	491.5	493.1	520.6	490.3	461.7	448.9	451.6	452.4
47.5°	1713.7	686.5	453.1	467.5	501.2	480.3	450.4	432.2	419.4	413.6
50°	1780.8	576.4	413.2	438.8	482.2	472.9	433.0	413.6	390.0	384.5
52.5°	1827.3	473.7	380.3	414.8	465.2	458.2	419.0	393.8	369.0	364.4
55°	1802.1	393.4	351.6	388.0	442.7	440.0	407.4	373.7	354.3	350.4
57.5°	1676.1	342.7	329.5	362.8	415.1	424.5	391.9	356.6	342.7	339.9
60°	1435.8	310.9	315.5	345.8	392.7	408.9	376.4	347.3	338.0	336.1
62.5°	1114.0	289.6	305.1	333.4	375.2	398.1	367.9	346.2	342.7	340.3
65°	798.1	272.5	293.8	321.0	359.3	388.0	364.8	344.6	345.4	343.4
67.5°	542.3	257.4	280.3	307.0	343.8	379.1	360.5	339.2	348.9	346.5
70°	379.5	242.7	264.4	289.2	324.4	366.7	352.7	331.0	330.3	321.0
72.5°	296.1	223.3	242.7	264.4	299.6	349.3	337.2	312.8	300.0	290.3
73°	282.6	218.6	237.2	258.9	294.2	345.0	333.0	307.8	293.4	284.5
75°	233.7	198.5	215.5	234.9	271.0	324.8	312.0	284.9	266.7	261.3
77.5°	183.7	169.8	186.1	203.5	238.8	295.4	281.0	255.1	245.0	240.3
80°	136.1	140.7	155.1	170.6	207.0	264.0	251.2	225.2	270.2	258.9
82.5°	95.7	106.6	119.8	133.7	173.7	233.4	217.8	191.1	197.7	164.4
85°	56.6	69.8	82.2	94.2	125.2	193.4	179.9	152.3	124.8	119.0
87.5°	32.9	38.8	42.3	54.7	86.1	145.7	126.8	112.8	64.7	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)