

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: P194060

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194060  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA 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: 8078 lumens  
Efficiency: N/A  
Efficacy: 95.0 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): 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

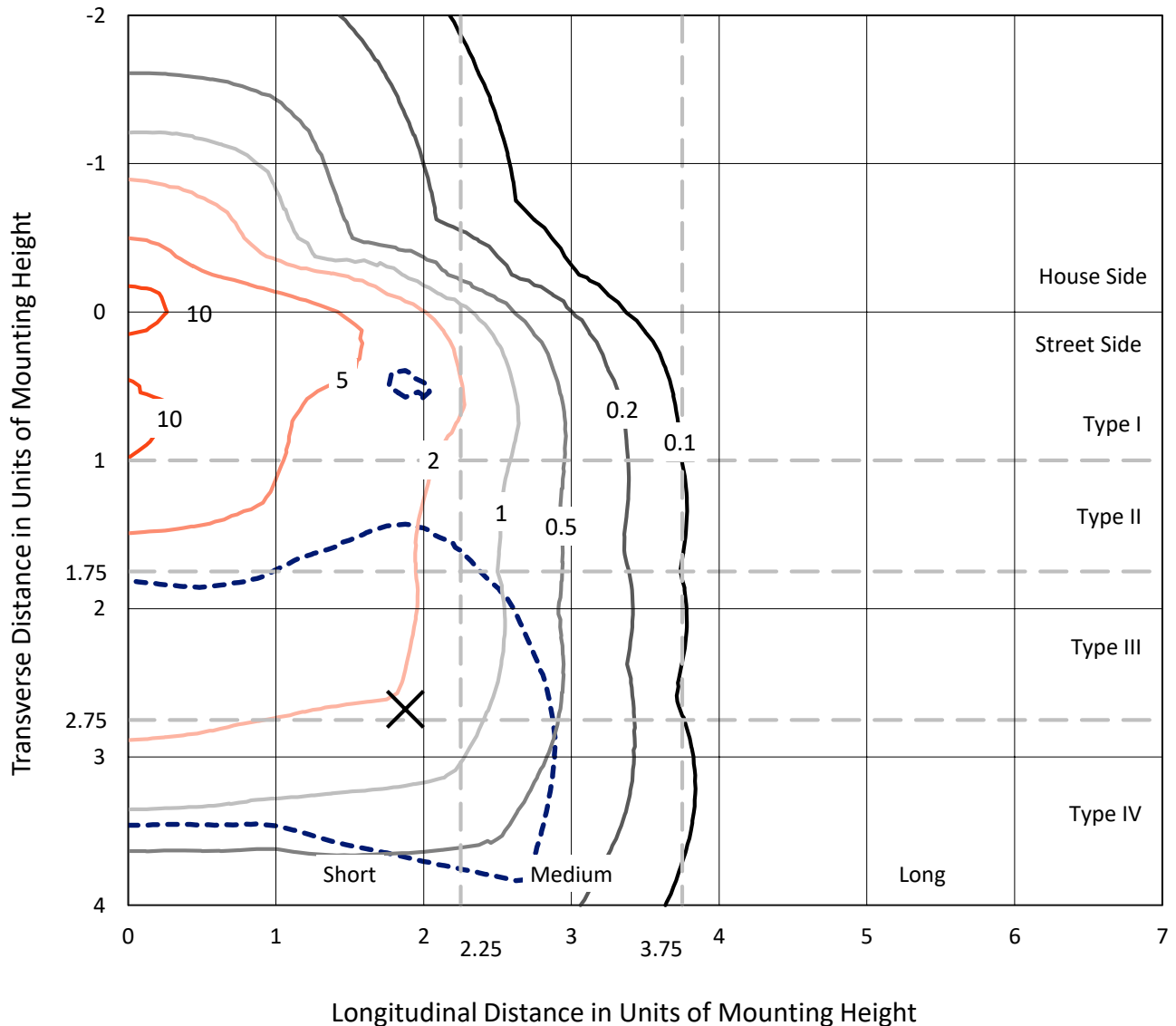


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

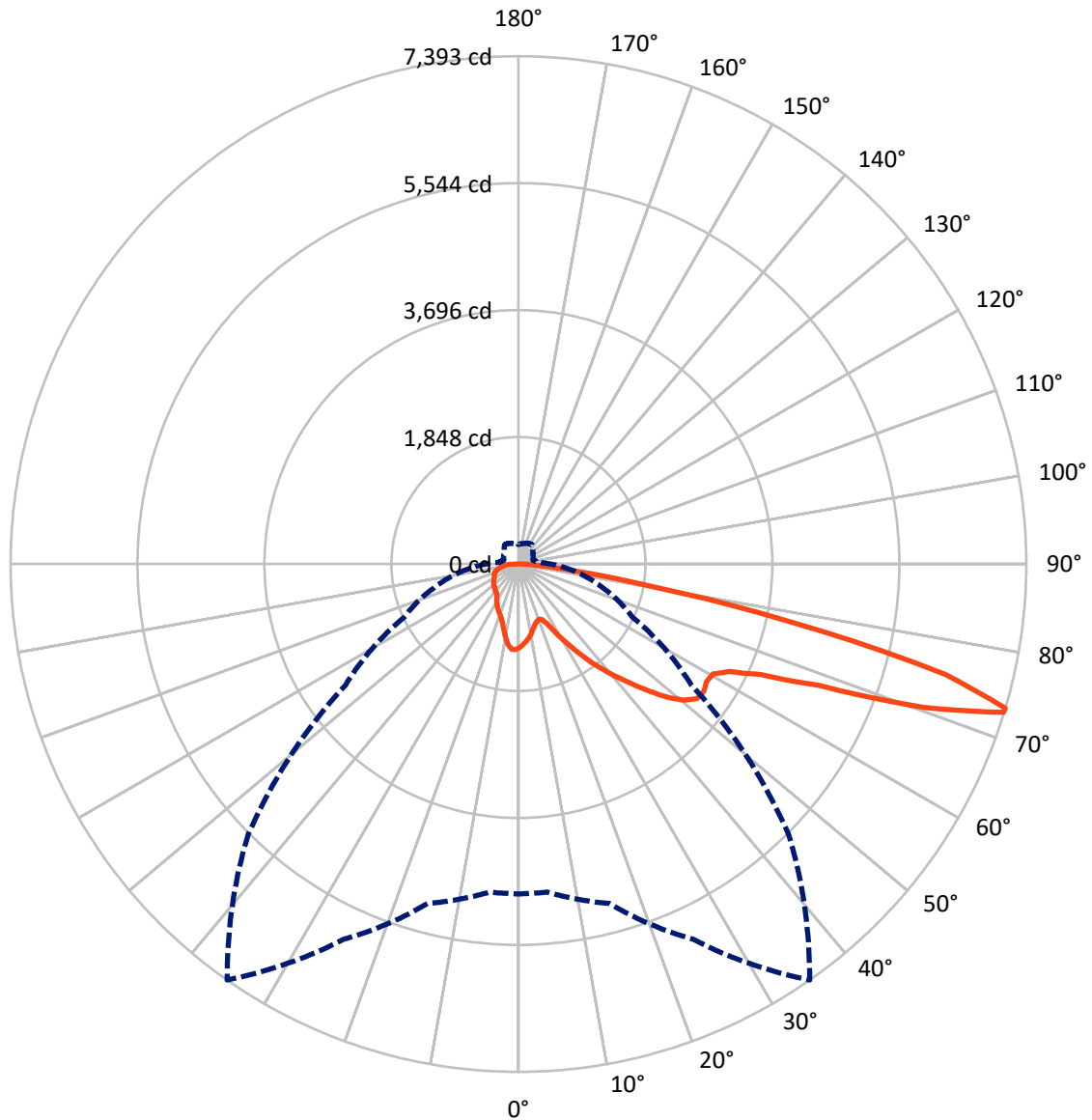


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1540.7	0.0	1540.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	6537.3	0.0	6537.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	8078.0	0.0	8078.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	1.4
10°-20°	275.5	3.4
20°-30°	445.3	5.5
30°-40°	746.8	9.2
40°-50°	1151.1	14.3
50°-60°	1544.4	19.1
60°-70°	2057.4	25.5
70°-80°	1569.2	19.4
80°-90°	177.9	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°	8078.0	100.0
0°-180°	8078.0	100.0



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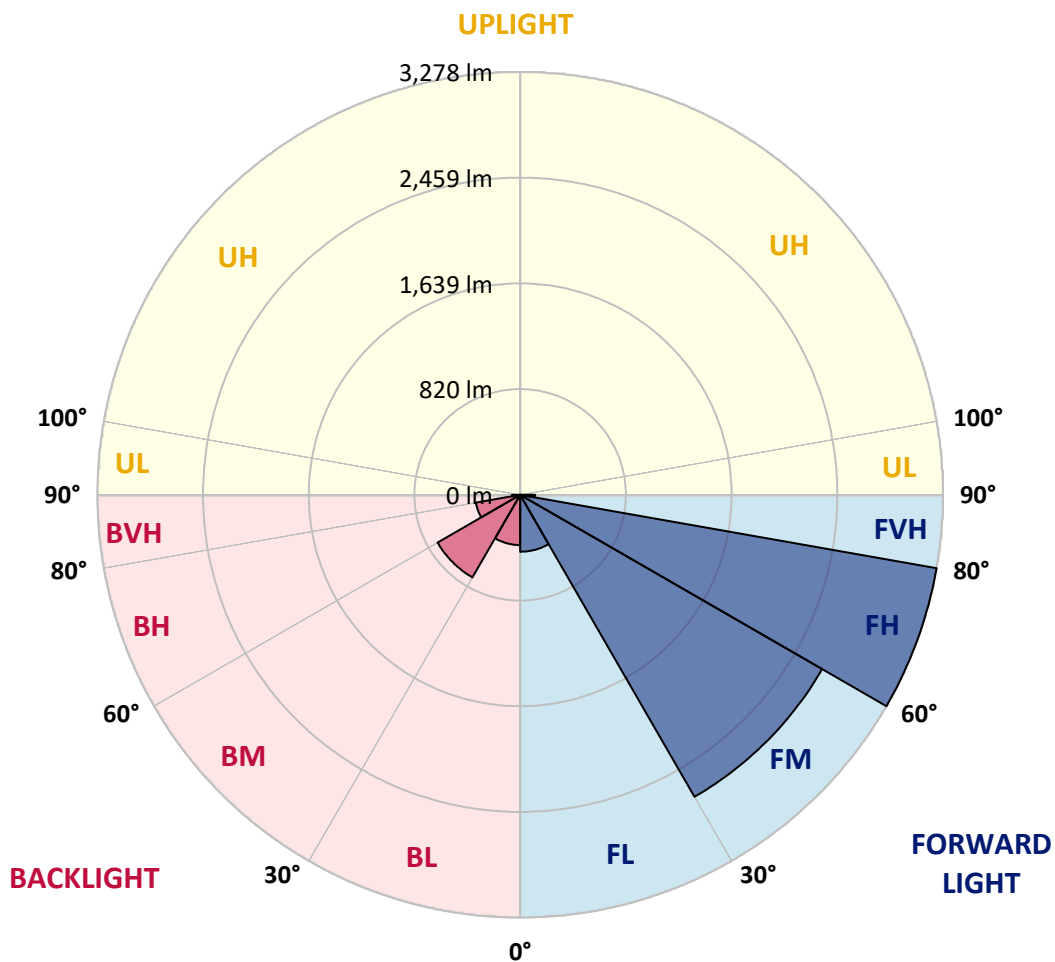
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.3	5.5			
FM	(30°-60°)	2703.0	33.5			
FH	(60°-80°)	3278.0	40.6			G2/5000
FVH	(80°-90°)	115.0	1.4			G2/225
BL	(0°-30°)	389.9	4.8	B1/500		
BM	(30°-60°)	739.4	9.2	B1/1000		
BH	(60°-80°)	348.6	4.3	B1/500		G1/500
BVH	(80°-90°)	62.9	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°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1171.1	1173.4	1170.7	1174.2	1180.0	1186.2	1190.5	1196.7	1203.7	1213.4	1215.7
5°	1116.0	1119.5	1119.5	1125.7	1137.0	1147.1	1156.4	1166.5	1181.2	1197.9	1204.5
7.5°	1055.5	1057.5	1061.0	1070.3	1086.6	1100.9	1114.1	1130.4	1150.6	1172.7	1184.3
10°	982.6	985.3	990.7	1003.9	1026.0	1045.8	1064.8	1087.3	1112.9	1140.5	1155.2
12.5°	931.0	930.2	932.6	942.2	961.6	985.7	1013.2	1041.9	1073.4	1105.6	1123.4
15°	913.5	909.3	900.4	898.0	908.5	932.6	964.4	999.7	1037.3	1076.1	1098.2
17.5°	924.4	917.0	892.6	874.8	873.2	891.4	925.2	964.7	1008.2	1055.5	1083.1
20°	992.7	975.2	915.1	873.6	859.2	868.2	897.6	939.5	990.7	1053.6	1088.9
22.5°	1156.0	1130.4	1002.8	925.6	877.1	866.2	888.3	932.9	992.7	1077.6	1122.6
25°	1393.8	1357.3	1153.3	1055.1	955.1	897.3	902.3	948.1	1020.2	1133.5	1187.8
27.5°	1581.5	1557.9	1349.9	1237.8	1097.0	981.0	947.7	986.1	1076.5	1225.0	1280.5
30°	1693.3	1678.9	1560.2	1445.0	1278.2	1114.5	1034.6	1057.5	1164.5	1351.9	1397.7
32.5°	1822.8	1814.3	1756.1	1650.2	1473.7	1289.8	1172.3	1164.1	1282.5	1504.3	1525.3
35°	1957.0	1954.3	1920.2	1844.2	1683.6	1521.0	1355.0	1299.9	1410.9	1662.6	1649.4
37.5°	2081.9	2077.3	2057.5	2013.3	1903.1	1769.3	1541.2	1439.2	1549.3	1813.9	1755.3
40°	2312.0	2275.5	2207.6	2174.3	2125.0	1978.4	1689.0	1569.1	1692.9	1958.2	1846.9
42.5°	2592.4	2533.1	2406.6	2360.9	2353.9	2143.2	1789.8	1695.2	1837.6	2101.3	1936.9
45°	2813.2	2757.3	2648.3	2590.5	2616.1	2292.6	1891.1	1829.8	1986.5	2251.5	2029.6
47.5°	3048.6	2961.0	2816.7	2834.1	2890.0	2433.8	1994.3	1974.5	2149.8	2419.4	2144.8
50°	3057.2	2990.1	2926.8	3031.2	3118.1	2563.7	2123.5	2126.2	2349.6	2630.8	2298.0
52.5°	2879.9	2865.5	2966.0	3130.1	3255.4	2666.5	2270.5	2282.9	2605.2	2873.7	2466.4
55°	2817.8	2801.5	2917.5	3095.6	3274.0	2751.5	2429.9	2452.4	2914.4	3129.7	2630.5
57.5°	2969.1	2933.0	2940.8	3079.3	3228.6	2844.6	2603.7	2649.1	3250.4	3353.5	2736.0
60°	3391.9	3314.7	3168.1	3164.6	3253.1	2984.2	2804.6	2860.1	3599.5	3460.6	2694.9
62.5°	3985.1	3907.9	3633.2	3454.4	3441.2	3214.7	3051.4	3066.1	3801.2	3315.5	2443.9
65°	4627.1	4558.0	4251.2	3998.6	3876.8	3596.4	3338.0	3158.0	3735.2	2916.4	2004.8
67.5°	5406.4	5332.3	5068.5	4835.4	4718.2	4212.4	3539.3	3070.0	3316.7	2259.2	1441.1
70°	5951.4	5875.8	5771.8	5960.7	6247.4	5101.1	3565.3	2711.9	2477.2	1501.6	867.4
72.5°	5240.4	5205.1	5394.8	6190.4	7384.4	5640.3	3222.8	1974.5	1438.8	797.2	502.0
73°	4801.2	4793.5	5117.0	6029.4	7392.5	5557.3	3072.7	1835.2	1234.0	705.2	458.9
75°	2168.1	2230.5	2939.6	4605.3	6422.7	4579.4	2162.6	1052.8	697.1	487.2	346.4
77.5°	521.0	542.7	919.7	2187.1	4056.1	2729.0	979.9	520.6	445.7	344.1	252.9
80°	221.9	229.3	354.2	808.0	1909.7	1099.0	451.5	348.7	308.4	240.1	177.3
82.5°	123.4	131.1	200.9	366.6	770.8	374.7	275.4	242.8	202.9	144.7	115.2
85°	69.8	74.1	117.5	204.8	326.6	150.5	164.9	161.4	114.4	74.5	56.6
87.5°	33.0	35.7	56.6	95.0	128.0	59.0	83.8	92.3	71.8	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°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1218.4	1225.4	1233.6	1237.8	1241.7	1246.4	1251.0	1251.0	1251.8	1252.2
5°	1209.9	1224.3	1237.1	1242.5	1243.7	1243.7	1242.5	1236.3	1230.9	1233.2
7.5°	1192.1	1213.0	1223.9	1221.9	1207.2	1190.1	1175.8	1158.3	1149.4	1147.8
10°	1166.5	1190.5	1192.5	1173.1	1136.6	1100.1	1069.9	1040.4	1026.4	1022.9
12.5°	1138.1	1160.3	1147.8	1107.9	1049.3	996.2	957.8	927.9	914.7	911.2
15°	1115.3	1130.4	1099.0	1036.1	962.4	906.2	874.4	852.3	842.9	840.2
17.5°	1103.2	1106.3	1048.9	964.0	885.6	838.7	818.9	808.4	804.9	803.0
20°	1109.1	1087.3	1001.2	896.9	822.8	789.8	785.1	782.4	781.7	780.5
22.5°	1138.1	1081.5	957.4	833.2	767.7	753.3	757.2	756.8	756.0	755.3
25°	1190.1	1086.6	914.7	772.7	721.5	718.4	725.4	725.4	722.3	722.3
27.5°	1258.8	1097.0	867.0	715.3	679.6	680.0	685.4	683.9	680.4	678.1
30°	1342.6	1103.6	811.1	663.7	640.4	638.9	640.4	633.9	623.4	622.6
32.5°	1428.3	1095.5	746.4	618.0	598.9	595.5	594.3	585.0	573.0	569.5
35°	1505.9	1065.6	680.4	581.5	559.4	551.6	557.0	553.9	543.1	540.4
37.5°	1562.5	1010.1	621.1	549.3	531.1	529.1	532.6	533.8	521.0	518.3
40°	1600.5	934.9	570.2	522.1	525.6	518.3	506.6	498.5	494.6	493.4
42.5°	1631.2	856.5	527.6	509.3	526.8	505.5	480.2	467.1	474.0	477.1
45°	1666.5	780.1	491.9	493.4	521.0	490.7	462.0	449.2	451.9	452.7
47.5°	1715.0	687.0	453.5	467.8	501.6	480.6	450.8	432.5	419.7	413.9
50°	1782.1	576.8	413.5	439.1	482.6	473.3	433.3	413.9	390.2	384.8
52.5°	1828.6	474.0	380.5	415.1	465.5	458.5	419.3	394.1	369.3	364.6
55°	1803.4	393.7	351.8	388.3	443.0	440.3	407.7	374.0	354.6	350.7
57.5°	1677.4	342.9	329.7	363.1	415.5	424.8	392.2	356.9	342.9	340.2
60°	1436.8	311.1	315.8	346.0	393.0	409.3	376.7	347.6	338.3	336.3
62.5°	1114.9	289.8	305.3	333.6	375.5	398.4	368.1	346.4	342.9	340.6
65°	798.7	272.7	294.0	321.2	359.6	388.3	365.0	344.9	345.6	343.7
67.5°	542.7	257.6	280.5	307.2	344.1	379.4	360.8	339.4	349.1	346.8
70°	379.8	242.8	264.6	289.4	324.7	367.0	353.0	331.3	330.5	321.2
72.5°	296.4	223.4	242.8	264.6	299.9	349.5	337.5	313.0	300.2	290.5
73°	282.8	218.8	237.4	259.1	294.4	345.2	333.2	308.0	293.7	284.7
75°	233.9	198.6	215.7	235.1	271.2	325.1	312.3	285.1	266.9	261.5
77.5°	183.9	169.9	186.2	203.7	239.0	295.6	281.2	255.2	245.2	240.5
80°	136.2	140.8	155.2	170.7	207.1	264.2	251.4	225.4	270.4	259.1
82.5°	95.8	106.7	119.9	133.8	173.8	233.5	218.0	191.2	197.8	164.5
85°	56.6	69.8	82.2	94.3	125.3	193.6	180.0	152.5	124.9	119.1
87.5°	33.0	38.8	42.3	54.7	86.1	145.9	126.8	112.9	64.8	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)