

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: P193780

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7630 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

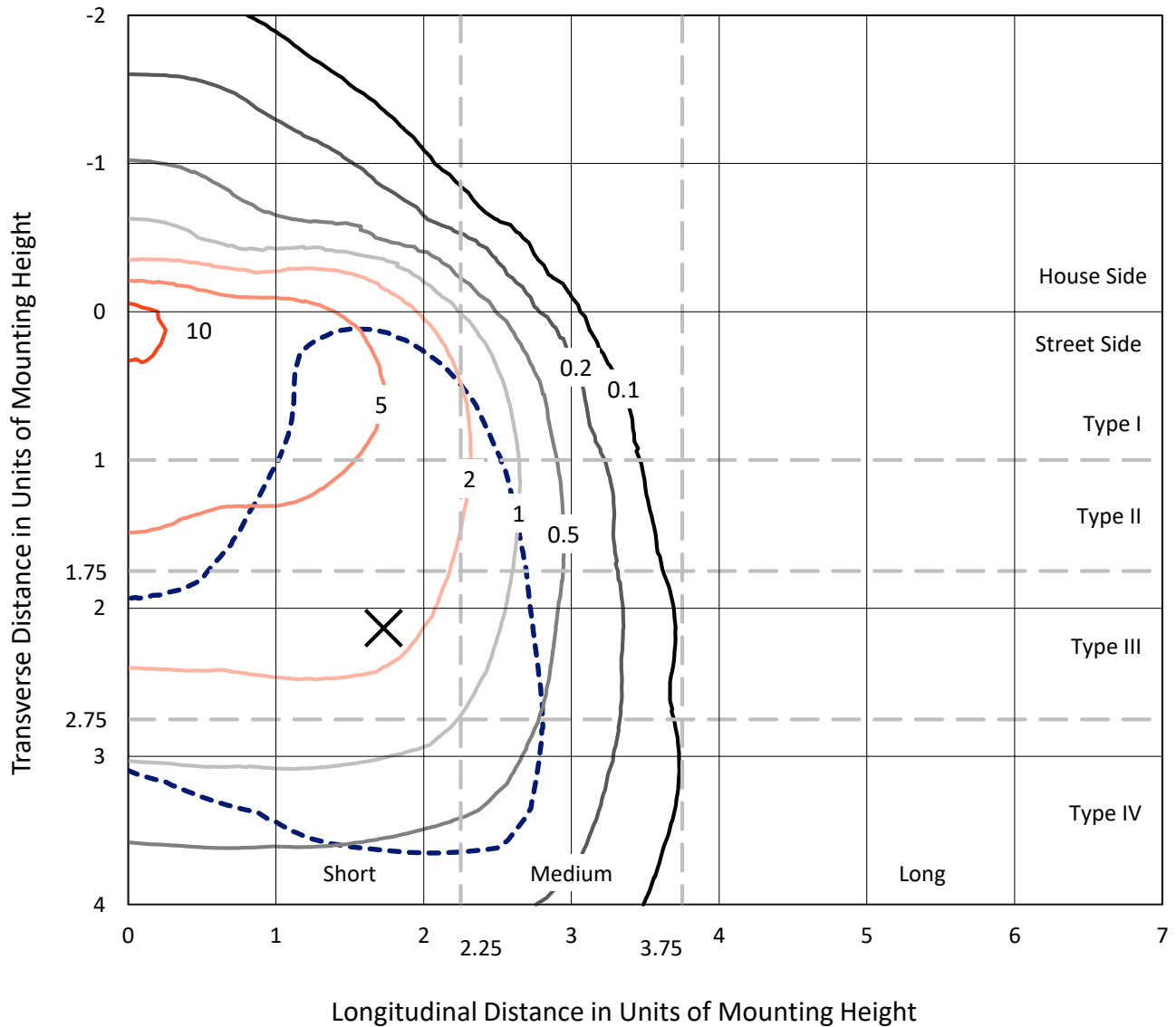
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

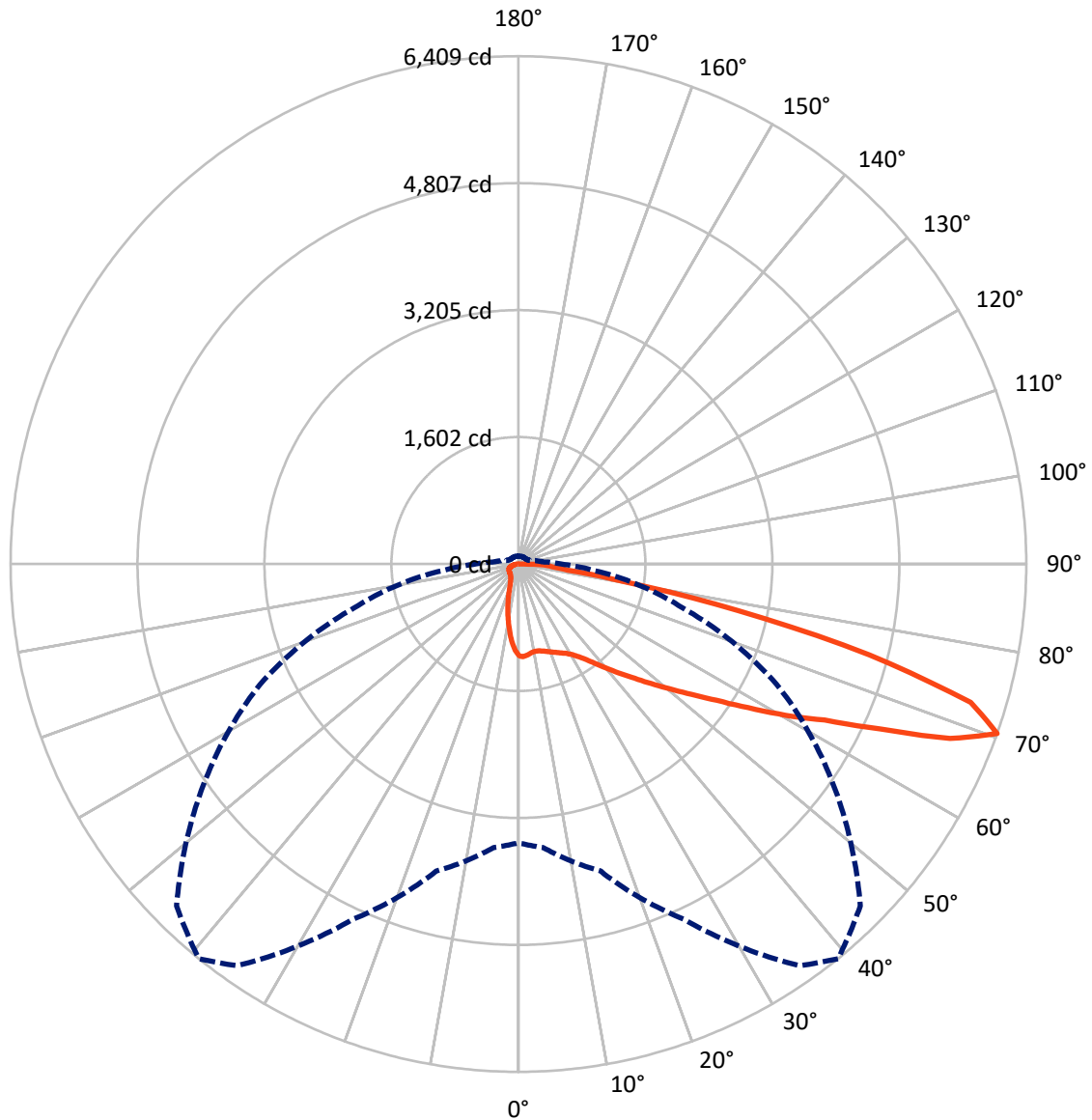
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.8	0.0	867.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	6762.2	0.0	6762.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	7630.0	0.0	7630.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.3
10°-20°	248.5	3.3
20°-30°	386.9	5.1
30°-40°	602.7	7.9
40°-50°	1011.9	13.3
50°-60°	1607.4	21.1
60°-70°	2144.1	28.1
70°-80°	1294.8	17.0
80°-90°	234.3	3.1
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°	7630.0	100.0
0°-180°	7630.0	100.0



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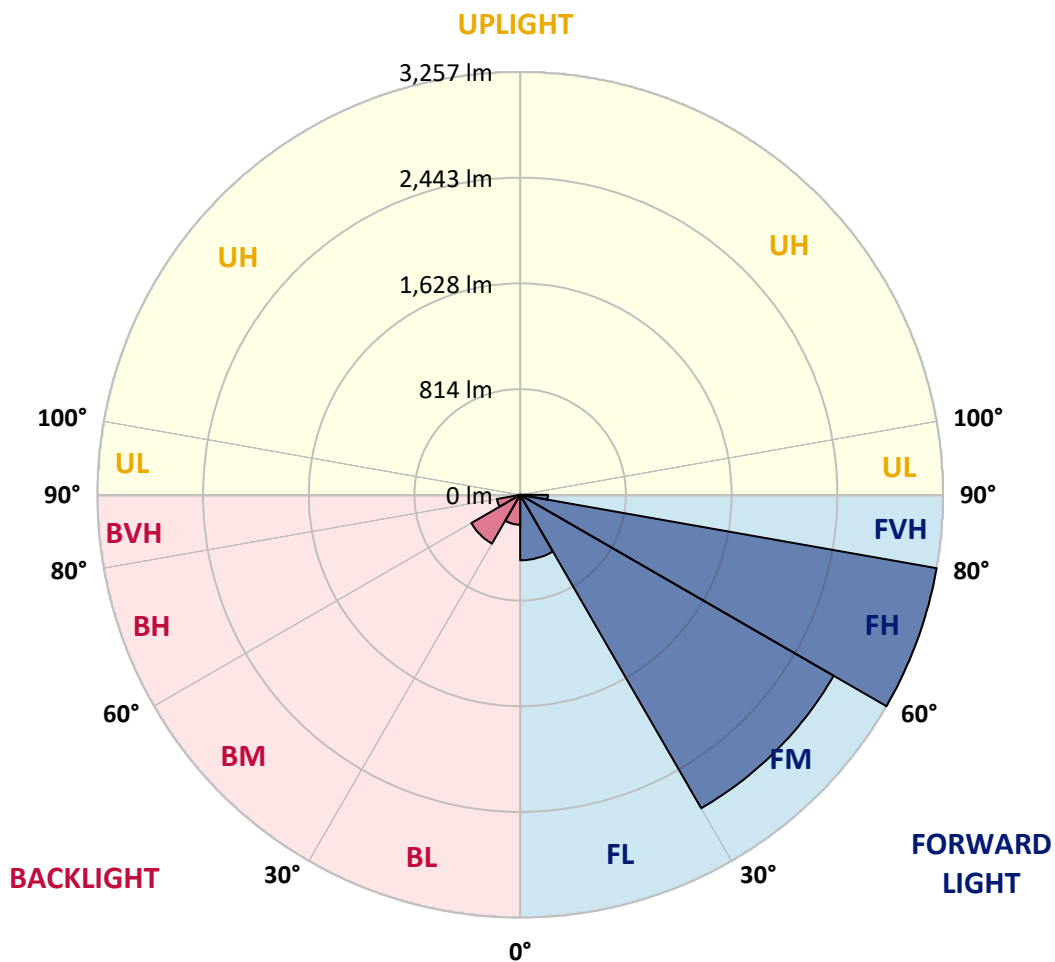
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.6	6.6			
FM	(30°-60°)	2787.7	36.5			
FH	(60°-80°)	3256.7	42.7			G2/5000
FVH	(80°-90°)	213.2	2.8			G2/225
BL	(0°-30°)	230.2	3.0	B1/500		
BM	(30°-60°)	434.3	5.7	B1/1000		
BH	(60°-80°)	182.2	2.4	B1/500		G1/500
BVH	(80°-90°)	21.1	0.3			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°	39°	45°	55°	65°	75°	85°
0°	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4
2.5°	1180.9	1180.5	1177.4	1175.0	1173.1	1172.3	1173.9	1168.1	1163.0	1156.8	1150.2
5°	1171.9	1171.5	1166.5	1161.8	1157.2	1155.6	1155.2	1144.8	1138.6	1129.3	1116.8
7.5°	1162.2	1160.3	1153.7	1145.9	1137.8	1133.9	1130.0	1116.5	1109.5	1100.2	1085.8
10°	1152.1	1149.8	1143.6	1135.9	1128.1	1122.3	1115.7	1102.5	1095.1	1088.1	1071.5
12.5°	1141.7	1139.7	1138.2	1134.7	1129.3	1124.2	1119.2	1107.9	1100.2	1092.0	1072.6
15°	1140.1	1139.3	1142.8	1145.2	1142.1	1139.0	1133.5	1123.8	1115.7	1107.5	1082.3
17.5°	1152.5	1152.1	1161.1	1167.3	1165.7	1160.3	1152.9	1142.1	1135.5	1128.5	1097.1
20°	1179.7	1181.6	1192.5	1200.6	1192.9	1185.1	1173.1	1158.0	1154.5	1151.4	1112.2
22.5°	1230.9	1232.8	1240.6	1243.7	1223.5	1212.3	1195.6	1176.2	1173.9	1176.2	1130.4
25°	1310.8	1308.9	1307.7	1296.1	1259.2	1241.8	1220.4	1200.2	1201.4	1211.9	1156.0
27.5°	1416.7	1406.2	1389.9	1355.0	1296.5	1277.1	1251.1	1232.4	1239.8	1260.0	1194.4
30°	1526.5	1514.9	1477.2	1420.2	1345.3	1324.0	1294.9	1274.0	1293.4	1325.2	1245.6
32.5°	1628.1	1626.6	1571.5	1498.2	1412.8	1394.2	1365.1	1341.5	1372.9	1421.4	1322.4
35°	1739.1	1742.6	1676.6	1588.6	1504.0	1484.6	1463.7	1445.8	1487.7	1554.4	1433.8
37.5°	1857.8	1864.8	1786.8	1687.5	1608.0	1599.8	1587.4	1579.6	1644.4	1736.8	1589.3
40°	2016.4	2009.5	1901.2	1799.2	1735.6	1735.2	1731.3	1740.6	1848.5	1974.9	1789.1
42.5°	2186.4	2165.8	2022.7	1919.1	1875.6	1888.8	1896.6	1934.6	2094.0	2264.3	2032.7
45°	2369.5	2323.3	2148.7	2045.9	2031.2	2059.1	2085.5	2168.1	2383.0	2593.7	2299.6
47.5°	2515.7	2471.1	2279.1	2179.0	2211.2	2253.5	2304.3	2435.0	2706.6	2933.9	2563.0
50°	2630.9	2601.8	2410.6	2334.2	2409.4	2474.6	2557.6	2737.2	3043.3	3265.2	2807.0
52.5°	2742.6	2720.9	2543.3	2493.2	2642.2	2732.2	2845.1	3061.5	3388.5	3591.0	3012.3
55°	2843.5	2828.0	2686.0	2691.4	2916.1	3033.2	3175.2	3430.8	3764.8	3881.6	3186.1
57.5°	2957.2	2937.4	2848.9	2940.1	3267.9	3420.0	3604.6	3845.9	4117.9	4140.0	3318.3
60°	3071.6	3054.5	3029.7	3227.2	3714.8	3874.6	4049.6	4248.2	4475.9	4340.5	3310.6
62.5°	3170.9	3172.9	3216.7	3528.6	4152.4	4337.4	4550.8	4747.1	4799.8	4375.4	3065.8
65°	3339.3	3369.9	3500.7	3955.3	4768.4	5015.9	5277.8	5246.3	4889.4	4049.2	2540.9
67.5°	3539.5	3593.4	3858.3	4524.0	5547.0	5875.6	5976.8	5359.2	4530.6	3291.6	1811.2
70°	3519.3	3593.4	4012.7	4948.0	6188.6	6409.0	6101.7	4850.3	3597.6	2150.3	962.1
72.5°	3125.1	3231.1	3698.1	4753.7	5986.5	5967.1	5297.2	3615.9	2137.5	863.5	375.9
75°	2381.9	2488.9	2890.8	3755.5	4731.6	4568.6	3758.6	1997.4	811.2	342.9	237.0
77.5°	1370.2	1453.2	1763.5	2303.1	3001.8	2834.6	2092.1	888.4	394.9	239.0	185.0
80°	765.0	811.2	999.7	1168.4	1471.0	1348.4	936.1	552.0	294.8	173.4	142.8
82.5°	604.8	645.9	808.4	737.1	671.9	619.9	537.7	491.5	235.5	109.4	85.3
85°	528.4	567.5	684.3	580.3	458.9	420.9	436.8	483.7	183.1	65.9	72.9
87.5°	489.6	541.9	609.8	447.3	357.3	316.5	403.1	530.3	59.0	41.1	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4	1158.4
2.5°	1144.4	1138.2	1128.1	1119.2	1105.2	1097.8	1089.7	1083.9	1079.2	1075.3	1081.5
5°	1109.1	1097.4	1076.1	1053.2	1026.1	1004.7	986.9	970.2	958.6	950.8	956.2
7.5°	1075.7	1056.7	1023.4	981.8	935.3	895.7	863.1	834.4	814.6	801.8	806.9
10°	1056.7	1033.1	981.5	916.3	847.6	785.9	734.7	690.5	659.9	642.4	645.1
12.5°	1052.1	1021.4	950.0	860.4	766.5	680.8	608.7	547.4	504.3	481.8	482.6
15°	1055.6	1016.4	920.6	806.9	688.2	580.0	490.0	415.5	365.4	339.8	339.4
17.5°	1061.4	1012.5	889.5	749.1	608.7	483.0	382.5	309.6	265.3	244.8	243.2
20°	1067.6	1006.3	854.6	686.6	526.0	393.0	299.5	242.5	214.5	203.3	202.5
22.5°	1076.5	1000.9	818.5	620.7	445.0	320.0	246.3	207.9	193.2	187.4	186.6
25°	1090.9	998.1	780.1	552.0	372.0	267.7	214.5	190.9	182.3	178.4	178.1
27.5°	1114.9	1002.0	744.0	485.3	312.7	232.4	196.7	182.3	176.1	172.6	172.2
30°	1145.9	1014.0	706.0	422.1	266.5	208.3	185.8	176.5	171.5	168.0	168.0
32.5°	1197.5	1034.2	666.1	367.4	233.5	191.6	177.7	171.5	167.2	164.5	164.1
35°	1273.6	1072.2	628.8	322.0	209.9	179.6	170.7	166.0	162.9	161.4	161.4
37.5°	1384.1	1132.4	595.9	289.4	195.5	171.5	164.1	160.6	158.7	158.7	158.7
40°	1532.7	1215.4	569.1	267.7	187.4	165.6	159.1	156.3	155.2	155.6	155.6
42.5°	1716.2	1323.2	551.2	252.5	183.5	162.2	155.6	153.2	152.1	151.7	152.1
45°	1925.3	1445.8	549.3	241.3	179.6	159.8	153.2	150.9	148.6	147.0	147.0
47.5°	2128.6	1570.3	565.2	237.4	175.3	157.1	151.3	149.0	145.5	142.0	142.0
50°	2308.2	1676.2	586.5	239.0	173.8	153.2	148.2	147.0	141.6	137.7	137.3
52.5°	2450.9	1757.7	604.0	243.6	175.3	150.5	144.3	144.7	138.9	134.6	134.2
55°	2565.4	1811.2	599.3	248.3	178.8	149.0	140.8	141.6	136.9	132.7	132.7
57.5°	2615.4	1791.5	547.8	244.4	181.6	149.4	138.1	141.2	137.3	133.4	133.4
60°	2508.0	1615.7	451.2	227.3	178.1	148.2	136.9	142.8	142.4	138.5	138.1
62.5°	2182.9	1301.1	349.9	202.1	166.0	142.4	133.8	142.4	146.6	145.5	145.1
65°	1682.4	926.8	267.3	175.0	149.7	132.7	125.7	133.4	139.3	140.8	140.4
67.5°	1092.0	567.9	206.0	149.4	131.5	121.4	115.2	118.7	119.9	119.9	119.1
70°	536.9	305.7	164.1	125.7	112.9	109.4	105.9	104.0	102.0	100.5	100.5
72.5°	265.0	199.8	135.0	106.3	97.4	95.8	95.0	92.7	91.2	89.2	88.4
75°	195.9	162.5	114.8	89.6	83.8	82.2	83.8	81.9	81.5	79.9	79.1
77.5°	161.0	138.5	98.9	76.8	71.8	69.1	71.4	71.8	72.2	69.8	69.1
80°	130.7	117.2	82.6	63.6	59.0	57.0	58.6	61.7	62.5	59.0	57.4
82.5°	94.3	95.8	66.7	49.7	45.8	44.2	47.3	51.2	52.0	46.9	45.8
85°	79.1	79.9	51.2	35.3	31.4	29.1	34.1	38.0	40.7	35.7	34.5
87.5°	33.0	46.9	29.5	19.8	17.5	15.1	18.2	20.2	24.4	22.5	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)