

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: P269084

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269084
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-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 8123.7 lumens
Efficiency: N/A
Efficacy: 95.6 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 - G3

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

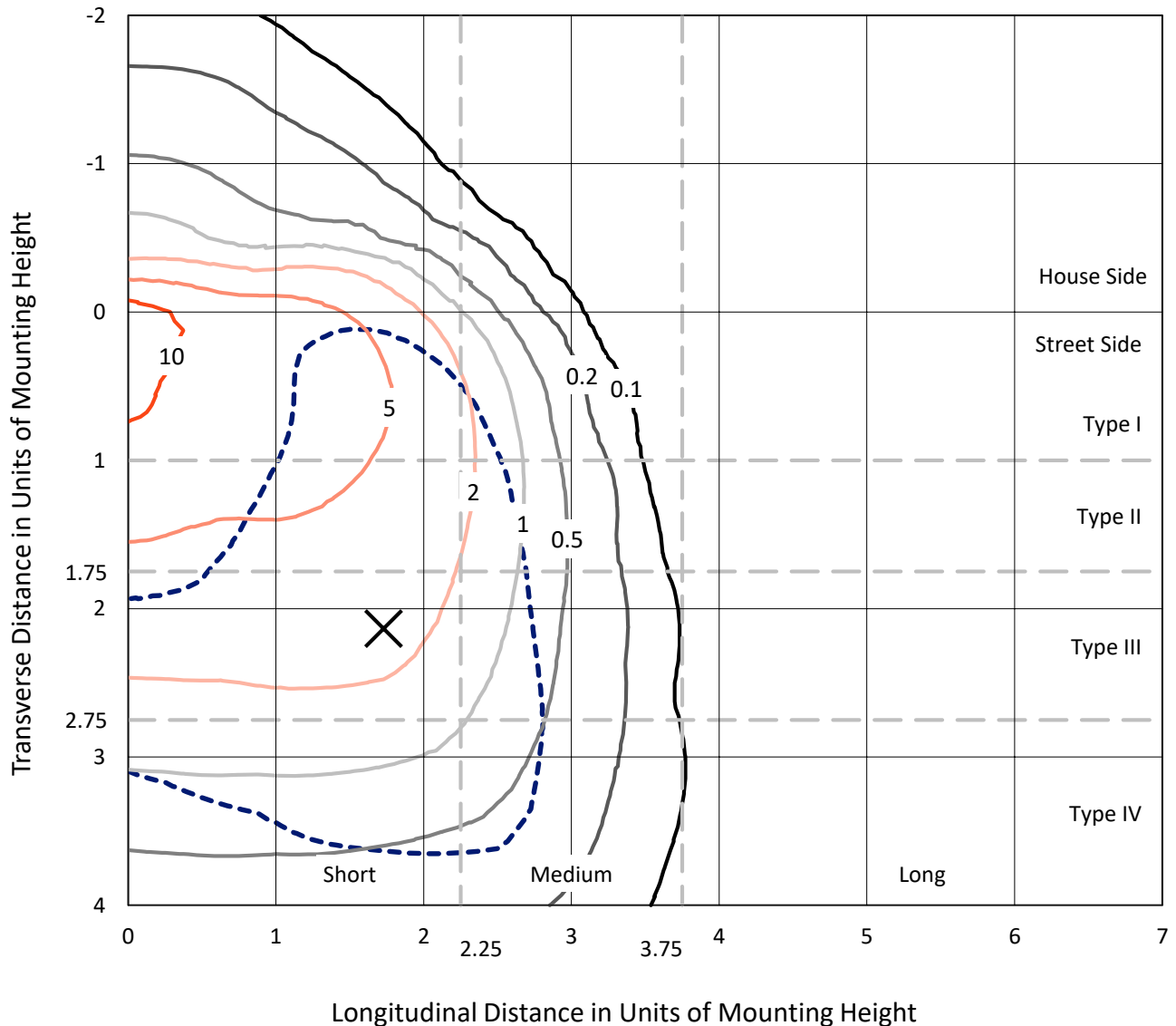


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Iso-Footcandle Lines of Horizontal Illumination

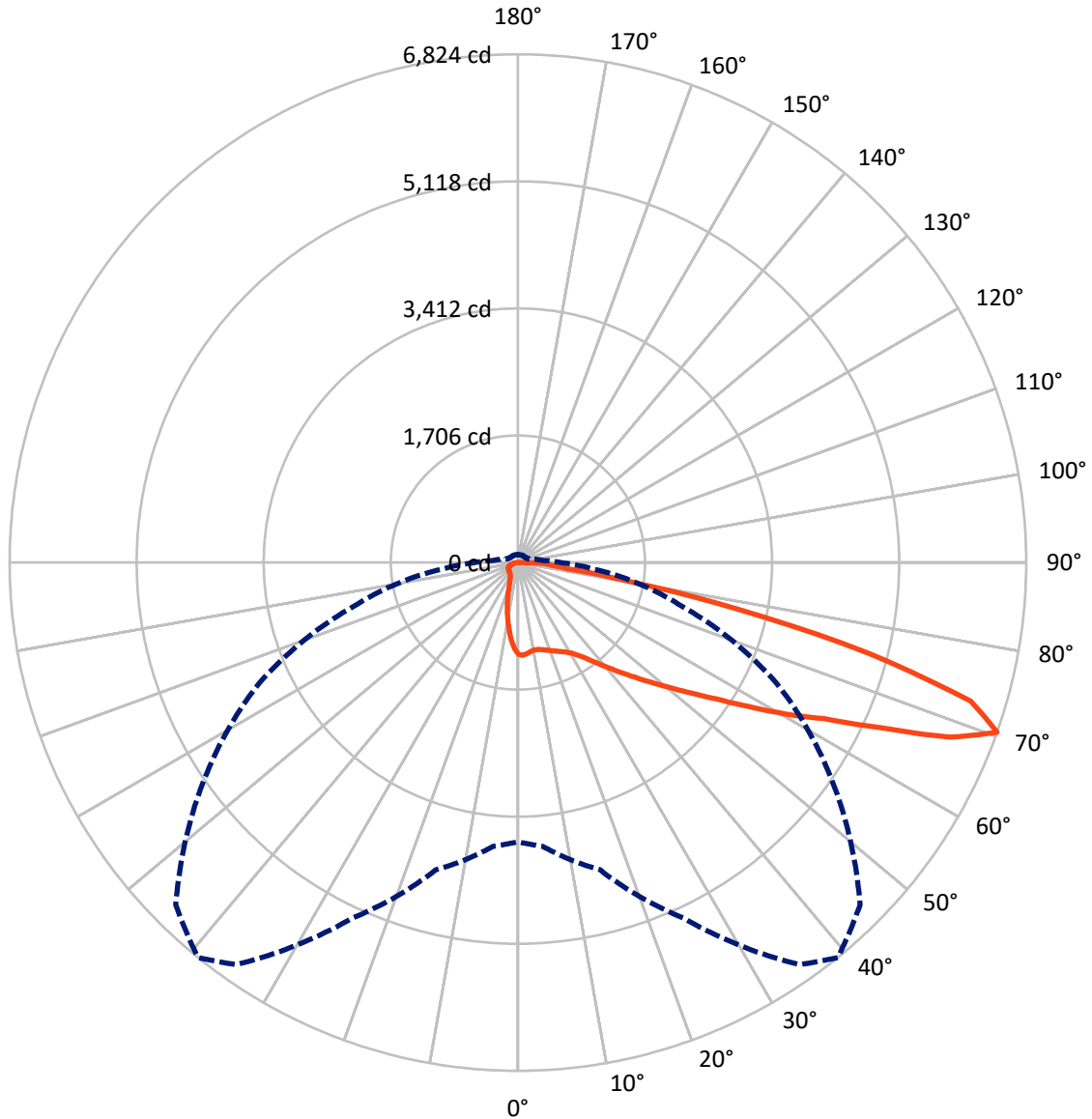
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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	923.9	0.0	923.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	7199.8	0.0	7199.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	8123.7	0.0	8123.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.3
10°-20°	264.6	3.3
20°-30°	411.9	5.1
30°-40°	641.7	7.9
40°-50°	1077.3	13.3
50°-60°	1711.4	21.1
60°-70°	2282.9	28.1
70°-80°	1378.5	17.0
80°-90°	249.5	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°	8123.7	100.0
0°-180°	8123.7	100.0



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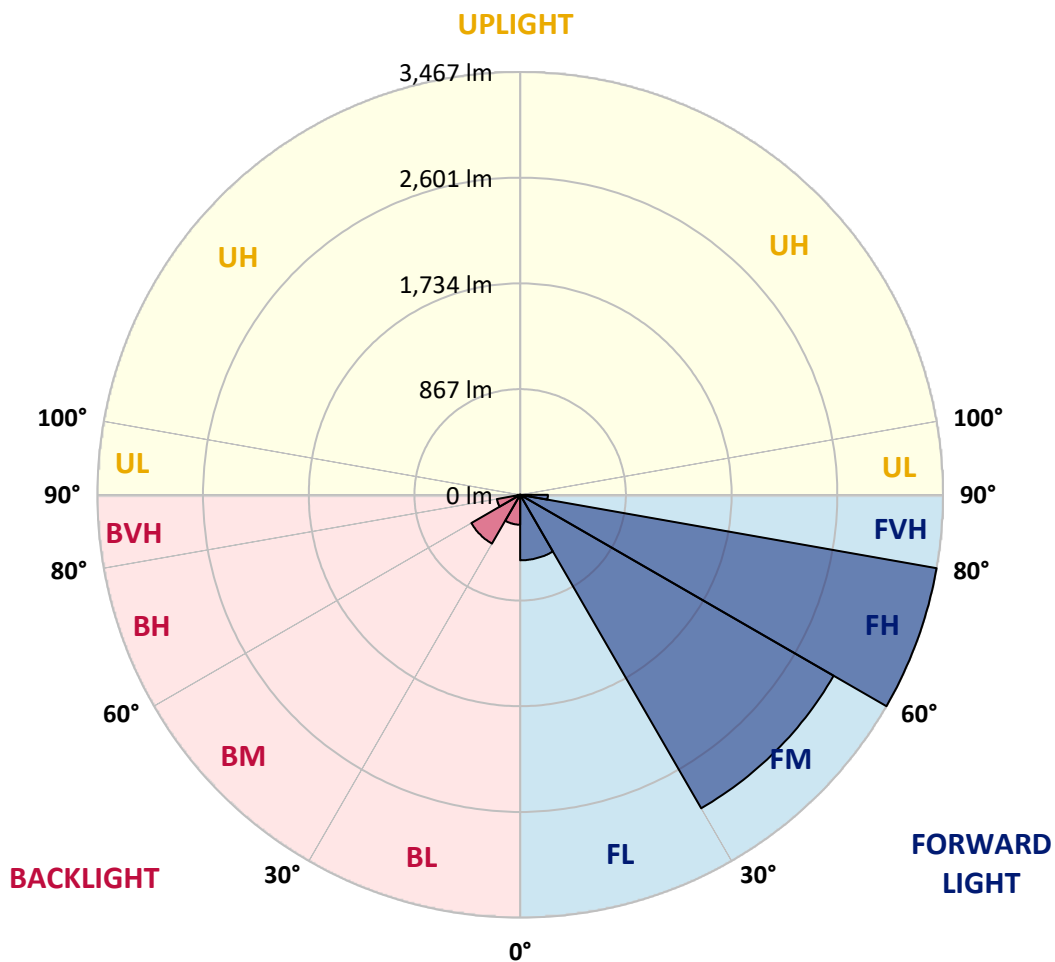
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.2	6.6			
FM	(30°-60°)	2968.1	36.5			
FH	(60°-80°)	3467.4	42.7			G2/5000
FVH	(80°-90°)	227.0	2.8			G3/500
BL	(0°-30°)	245.1	3.0	B1/500		
BM	(30°-60°)	462.4	5.7	B1/1000		
BH	(60°-80°)	194.0	2.4	B1/500		G1/500
BVH	(80°-90°)	22.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1257.3	1256.9	1253.6	1251.1	1249.1	1248.1	1249.8	1243.7	1238.3	1231.7	1224.6
5°	1247.7	1247.3	1241.9	1237.1	1232.0	1230.4	1230.0	1218.8	1212.3	1202.3	1189.0
7.5°	1237.4	1235.3	1228.3	1220.1	1211.5	1207.3	1203.2	1188.6	1181.4	1171.4	1156.1
10°	1226.6	1224.2	1217.7	1209.4	1201.2	1194.8	1187.9	1173.8	1166.0	1158.5	1140.8
12.5°	1215.5	1213.5	1211.9	1208.1	1202.3	1196.9	1191.6	1179.7	1171.4	1162.6	1142.0
15°	1213.9	1213.2	1216.8	1219.3	1215.9	1212.6	1206.9	1196.5	1187.9	1179.1	1152.3
17.5°	1227.2	1226.6	1236.2	1242.8	1241.2	1235.3	1227.5	1215.9	1208.8	1201.6	1168.1
20°	1256.0	1258.0	1269.7	1278.3	1270.1	1261.8	1249.1	1233.0	1229.2	1225.8	1184.1
22.5°	1310.5	1312.7	1320.9	1324.2	1302.7	1290.8	1273.0	1252.2	1249.8	1252.2	1203.5
25°	1395.6	1393.6	1392.4	1379.9	1340.7	1322.1	1299.4	1277.8	1279.1	1290.3	1230.9
27.5°	1508.3	1497.2	1479.9	1442.7	1380.3	1359.7	1332.0	1312.2	1320.0	1341.4	1271.7
30°	1625.3	1612.8	1572.8	1512.0	1432.3	1409.7	1378.7	1356.4	1377.0	1410.9	1326.3
32.5°	1733.5	1731.8	1673.3	1595.1	1504.2	1484.4	1453.5	1428.2	1461.7	1513.4	1408.1
35°	1851.5	1855.3	1785.1	1691.4	1601.3	1580.7	1558.4	1539.3	1584.0	1654.9	1526.6
37.5°	1978.0	1985.4	1902.4	1796.7	1712.0	1703.4	1690.2	1681.8	1750.8	1849.2	1692.1
40°	2146.9	2139.6	2024.3	1915.6	1848.0	1847.5	1843.3	1853.3	1968.0	2102.8	1904.9
42.5°	2327.9	2305.9	2153.5	2043.3	1997.0	2011.0	2019.3	2059.8	2229.6	2410.8	2164.2
45°	2522.8	2473.7	2287.8	2178.3	2162.6	2192.4	2220.4	2308.5	2537.3	2761.5	2448.4
47.5°	2678.4	2631.0	2426.5	2320.1	2354.3	2399.4	2453.5	2592.6	2881.8	3123.8	2729.0
50°	2801.2	2770.3	2566.5	2485.3	2565.3	2634.6	2723.1	2914.3	3240.2	3476.5	2988.8
52.5°	2920.1	2897.0	2707.9	2654.5	2813.1	2909.0	3029.2	3259.6	3607.9	3823.5	3207.2
55°	3027.5	3010.9	2859.8	2865.7	3104.7	3229.4	3380.6	3652.9	4008.4	4132.8	3392.2
57.5°	3148.5	3127.4	3033.2	3130.4	3479.3	3641.3	3837.9	4094.7	4384.3	4407.9	3533.0
60°	3270.4	3252.3	3225.8	3435.9	3955.1	4125.3	4311.7	4523.1	4765.6	4621.4	3524.8
62.5°	3376.1	3378.2	3424.9	3756.9	4421.1	4618.0	4845.3	5054.3	5110.4	4658.6	3264.3
65°	3555.3	3588.0	3727.2	4211.3	5077.0	5340.5	5619.3	5585.8	5205.9	4311.1	2705.3
67.5°	3768.5	3825.9	4107.9	4816.7	5905.8	6255.7	6363.6	5706.0	4823.8	3504.6	1928.4
70°	3747.0	3825.9	4272.3	5268.2	6589.1	6823.6	6496.5	5164.0	3830.5	2289.4	1024.2
72.5°	3327.3	3440.1	3937.5	5061.3	6373.8	6353.3	5639.9	3849.9	2275.8	919.4	400.3
75°	2536.1	2650.0	3078.0	3998.5	5037.8	4864.2	4001.9	2126.6	863.6	365.2	252.3
77.5°	1458.8	1547.2	1877.6	2452.2	3196.0	3018.0	2227.4	945.8	420.4	254.4	197.0
80°	814.6	863.6	1064.4	1244.1	1566.3	1435.8	996.6	587.8	313.9	184.6	152.1
82.5°	643.9	687.7	860.8	784.8	715.4	660.1	572.5	523.4	250.6	116.5	90.9
85°	562.6	604.3	728.5	617.9	488.6	448.2	465.1	515.1	194.9	70.2	77.7
87.5°	521.2	577.0	649.3	476.2	380.4	337.0	429.1	564.7	62.8	43.7	31.4
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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1218.5	1211.9	1201.2	1191.6	1176.7	1168.9	1160.3	1154.1	1149.0	1144.9	1151.5
5°	1180.8	1168.4	1145.8	1121.4	1092.5	1069.7	1050.7	1033.1	1020.7	1012.3	1018.0
7.5°	1145.2	1125.0	1089.6	1045.4	995.9	953.7	919.0	888.5	867.4	853.7	859.0
10°	1125.0	1100.0	1045.0	975.6	902.4	836.9	782.2	735.3	702.6	684.0	686.8
12.5°	1120.1	1087.5	1011.5	916.1	816.1	724.8	648.0	582.8	536.9	513.0	513.8
15°	1123.9	1082.2	980.1	859.0	732.7	617.5	521.6	442.3	389.1	361.7	361.4
17.5°	1130.1	1078.0	947.1	797.5	648.0	514.2	407.2	329.6	282.4	260.6	259.0
20°	1136.6	1071.4	910.0	731.1	560.1	418.4	318.9	258.2	228.3	216.4	215.7
22.5°	1146.1	1065.6	871.4	660.9	473.8	340.7	262.2	221.4	205.7	199.6	198.6
25°	1161.5	1062.8	830.7	587.8	396.2	285.0	228.3	203.1	194.2	190.0	189.6
27.5°	1187.0	1066.8	792.1	516.6	332.9	247.5	209.5	194.2	187.6	183.9	183.3
30°	1220.1	1079.7	751.7	449.4	283.8	221.8	197.8	187.9	182.5	178.9	178.9
32.5°	1275.1	1101.1	709.2	391.1	248.7	204.1	189.2	182.5	178.0	175.1	174.7
35°	1356.0	1141.7	669.5	342.9	223.5	191.2	181.7	176.7	173.5	171.8	171.8
37.5°	1473.7	1205.6	634.5	308.1	208.1	182.5	174.7	170.9	168.9	168.9	168.9
40°	1632.0	1294.0	605.8	285.0	199.6	176.3	169.3	166.5	165.2	165.6	165.6
42.5°	1827.2	1408.8	587.0	269.0	195.3	172.7	165.6	163.1	162.0	161.4	162.0
45°	2049.8	1539.3	584.8	256.9	191.2	170.1	163.1	160.6	158.2	156.6	156.6
47.5°	2266.3	1671.9	601.8	252.8	186.7	167.3	161.1	158.6	154.9	151.2	151.2
50°	2457.6	1784.8	624.5	254.4	185.1	163.1	157.8	156.6	150.7	146.7	146.2
52.5°	2609.5	1871.3	643.0	259.4	186.7	160.3	153.6	154.1	148.0	143.3	142.9
55°	2731.3	1928.4	638.2	264.3	190.4	158.6	149.9	150.7	145.9	141.3	141.3
57.5°	2784.7	1907.5	583.2	260.1	193.2	159.0	147.1	150.3	146.2	142.1	142.1
60°	2670.2	1720.3	480.4	242.1	189.6	157.8	145.9	152.1	151.5	147.4	147.1
62.5°	2324.2	1385.2	372.5	215.1	176.7	151.5	142.6	151.5	156.1	154.9	154.5
65°	1791.3	986.7	284.6	186.3	159.4	141.3	133.8	142.1	148.3	149.9	149.5
67.5°	1162.6	604.6	219.4	159.0	140.0	129.3	122.7	126.4	127.6	127.6	126.8
70°	571.6	325.5	174.7	133.8	120.3	116.5	112.7	110.8	108.7	107.0	107.0
72.5°	282.1	212.7	143.6	113.1	103.7	102.0	101.1	98.8	97.0	95.0	94.1
75°	208.5	173.1	122.3	95.4	89.2	87.6	89.2	87.1	86.7	85.1	84.3
77.5°	171.3	147.4	105.3	81.7	76.4	73.5	75.9	76.4	76.8	74.3	73.5
80°	139.1	124.8	87.9	67.7	62.8	60.7	62.3	65.7	66.6	62.8	61.2
82.5°	100.4	102.0	71.1	52.9	48.8	47.2	50.3	54.4	55.3	49.9	48.8
85°	84.3	85.1	54.4	37.5	33.4	31.0	36.3	40.5	43.4	38.0	36.8
87.5°	35.2	49.9	31.4	21.1	18.5	16.1	19.5	21.5	26.1	24.0	23.5
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)