

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: P191959

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5036 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

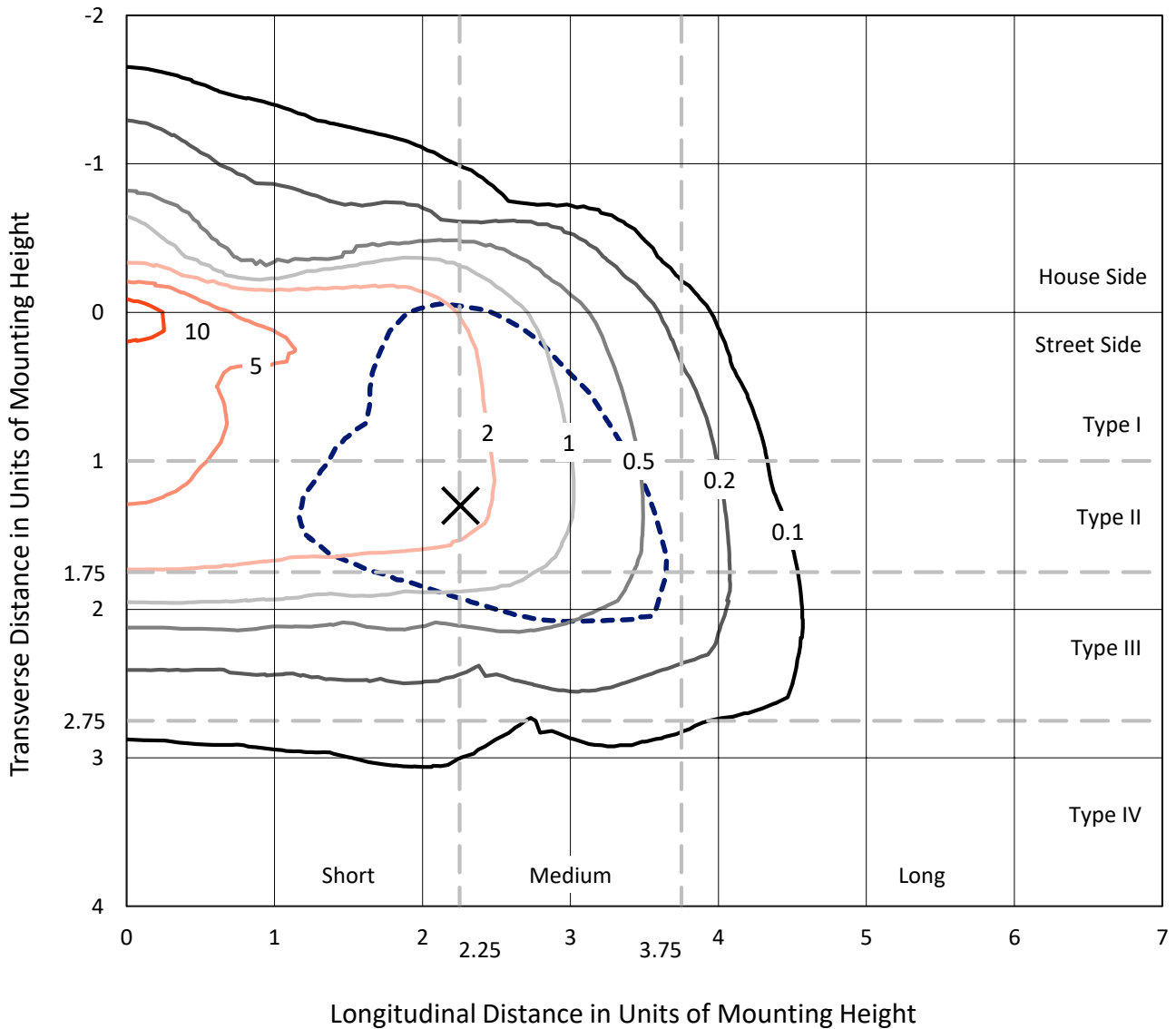
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

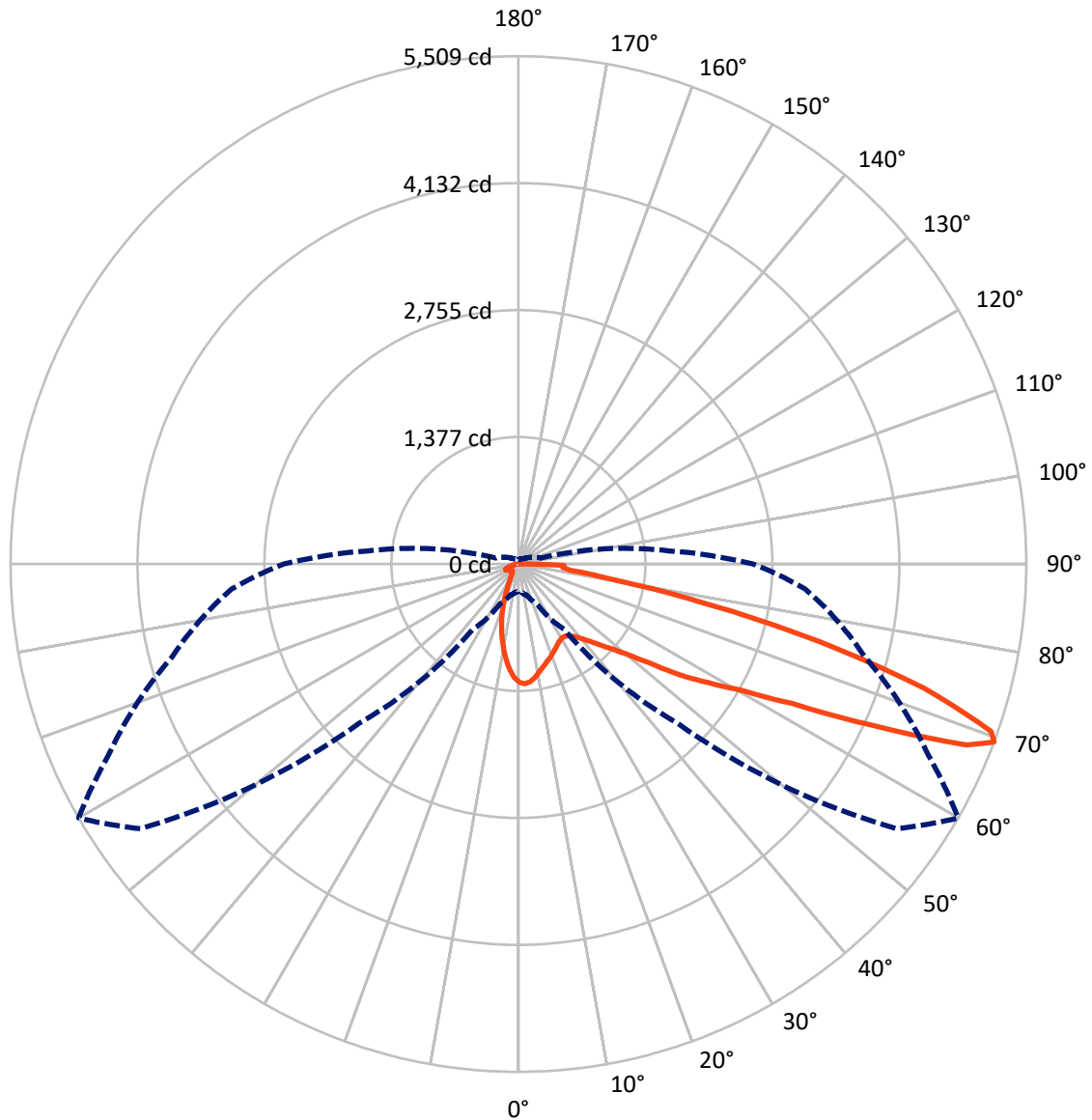
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.5	0.0	716.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4319.5	0.0	4319.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	5036.0	0.0	5036.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	2.2
10°-20°	231.2	4.6
20°-30°	294.6	5.8
30°-40°	404.9	8.0
40°-50°	657.1	13.0
50°-60°	1053.7	20.9
60°-70°	1402.5	27.8
70°-80°	757.2	15.0
80°-90°	126.4	2.5
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°	5036.0	100.0
0°-180°	5036.0	100.0



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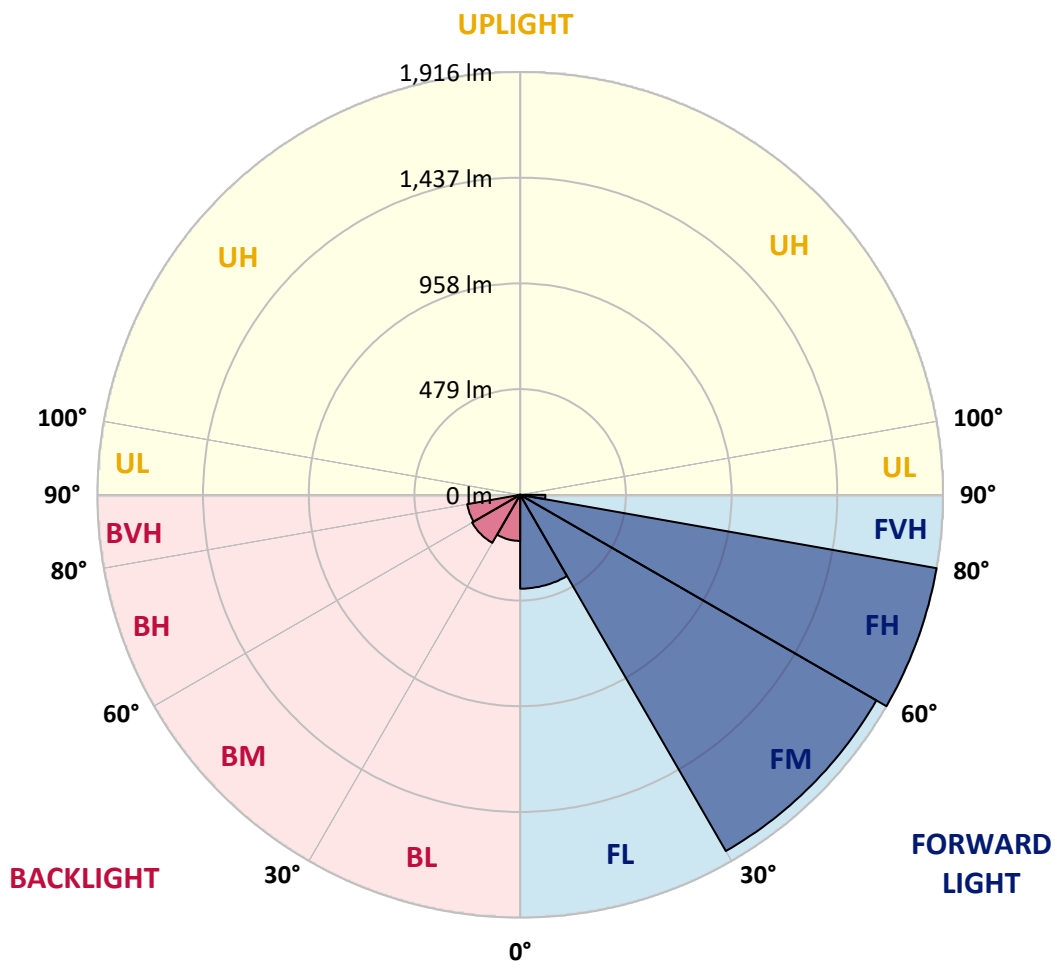
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.2	8.4			
FM (30°-60°)	1864.0	37.0			
FH (60°-80°)	1916.1	38.0			G2/5000
FVH (80°-90°)	114.2	2.3			G2/225
BL (0°-30°)	209.0	4.2	B1/500		
BM (30°-60°)	251.7	5.0	B1/1000		
BH (60°-80°)	243.6	4.8	B1/500		G1/500
BVH (80°-90°)	12.2	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2
2.5°	1309.5	1312.4	1311.2	1310.5	1312.7	1309.3	1302.2	1300.0	1296.6	1288.6	1275.0
5°	1260.4	1269.1	1268.7	1275.2	1286.2	1289.1	1285.9	1286.4	1280.1	1270.1	1247.5
7.5°	1175.5	1179.1	1181.1	1195.4	1215.4	1231.4	1245.1	1249.4	1246.5	1238.0	1208.8
10°	1087.9	1090.8	1095.4	1112.2	1137.5	1159.7	1185.5	1200.3	1206.6	1205.2	1172.6
12.5°	1012.7	1015.7	1021.7	1040.7	1070.9	1098.1	1135.6	1154.1	1169.2	1178.2	1143.1
15°	945.3	951.7	957.5	979.4	1013.2	1049.0	1091.3	1114.7	1138.0	1158.2	1117.1
17.5°	892.8	899.1	902.5	922.5	958.5	1002.3	1051.9	1079.4	1108.6	1141.7	1091.3
20°	862.4	865.3	863.9	875.0	907.4	953.9	1012.7	1044.6	1079.9	1126.1	1065.5
22.5°	853.9	854.1	848.8	847.6	868.5	907.6	970.9	1009.6	1052.9	1115.9	1043.4
25°	874.6	873.8	859.2	847.3	849.5	872.4	930.5	975.5	1030.2	1113.7	1026.4
27.5°	920.5	922.7	901.1	878.7	856.6	855.8	899.9	947.3	1011.8	1123.7	1019.1
30°	985.0	988.6	965.5	937.1	895.5	861.2	887.9	930.5	1000.3	1144.3	1017.8
32.5°	1055.5	1059.4	1041.9	1012.0	957.5	894.3	896.2	932.0	999.8	1173.3	1026.1
35°	1130.7	1135.1	1126.1	1100.8	1040.2	955.3	927.8	955.6	1015.7	1217.6	1048.3
37.5°	1214.6	1221.5	1223.9	1199.8	1135.1	1035.8	979.6	1000.3	1051.4	1279.1	1088.9
40°	1335.6	1345.0	1344.3	1309.8	1243.8	1144.6	1059.7	1065.0	1107.1	1361.3	1153.8
42.5°	1567.1	1569.1	1508.5	1433.3	1363.5	1258.9	1154.1	1149.7	1184.0	1465.5	1249.4
45°	1861.7	1853.7	1718.9	1573.7	1488.6	1390.3	1276.9	1255.5	1281.5	1592.4	1369.1
47.5°	2106.2	2087.7	1917.5	1717.0	1620.9	1533.1	1421.2	1383.7	1398.1	1736.5	1523.8
50°	2191.1	2177.3	2036.2	1836.2	1746.2	1707.3	1598.8	1545.7	1549.6	1908.2	1705.1
52.5°	2172.9	2170.9	2076.8	1914.8	1863.4	1890.2	1850.3	1778.5	1740.6	2098.9	1900.7
55°	2129.8	2134.0	2099.9	2006.2	1997.5	2066.8	2179.0	2125.9	2008.0	2291.4	2102.8
57.5°	1980.2	1990.9	2065.8	2121.3	2213.3	2316.4	2443.6	2428.6	2295.7	2499.4	2343.2
60°	1595.4	1620.2	1821.1	2098.9	2435.4	2758.0	2814.9	2779.8	2592.5	2757.5	2660.6
62.5°	1117.8	1143.6	1382.5	1817.2	2398.9	3256.7	3478.5	3327.4	3018.7	3137.7	3071.5
65°	598.4	610.9	793.3	1260.9	2025.2	3359.6	4448.4	4218.5	3693.6	3606.5	3423.1
67.5°	330.1	336.9	406.7	636.6	1297.1	2958.4	5066.3	5240.0	4537.0	3918.6	3359.1
69°	298.5	304.8	350.6	482.2	868.0	2446.1	5006.0	5509.3	4906.8	3887.7	3122.6
70°	291.9	297.8	338.9	444.5	702.6	2016.2	4803.9	5440.5	4994.8	3777.0	2916.3
72.5°	262.7	269.1	309.0	399.2	600.4	1005.2	3805.2	4600.0	4534.8	3274.9	2212.1
75°	245.0	250.8	318.4	390.9	574.8	636.2	2508.6	3390.2	3333.5	2290.9	1192.8
77.5°	104.8	104.4	147.7	330.8	583.4	616.0	1348.0	2117.9	1932.3	979.2	342.5
80°	70.1	68.8	70.1	97.3	535.0	619.4	706.2	1075.0	812.0	249.6	168.8
82.5°	60.3	59.4	61.5	59.4	188.0	706.9	600.4	571.7	386.1	141.8	83.7
85°	40.6	38.9	53.0	53.3	88.8	628.1	676.3	482.9	312.4	84.2	41.4
87.5°	19.5	19.0	30.9	37.7	52.1	255.2	758.8	494.8	315.0	43.1	19.7
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°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2
2.5°	1270.8	1260.9	1251.1	1239.5	1227.3	1213.7	1206.9	1200.1	1198.3	1196.4	1189.6
5°	1235.8	1221.7	1197.4	1170.6	1142.4	1114.9	1094.0	1080.8	1070.9	1065.8	1056.8
7.5°	1190.6	1169.9	1127.3	1081.1	1033.7	990.4	952.9	929.3	906.9	896.4	884.5
10°	1147.5	1116.6	1050.4	982.3	914.2	848.8	787.2	743.7	705.0	683.3	668.0
12.5°	1110.5	1068.2	976.5	884.3	790.9	697.7	605.5	533.0	472.4	440.6	424.3
15°	1074.5	1023.4	906.2	789.2	669.2	542.5	421.3	339.1	289.0	269.1	262.2
17.5°	1041.9	976.5	835.6	693.3	543.7	390.4	283.2	237.9	218.7	212.1	209.9
20°	1006.7	929.0	762.4	593.1	412.8	272.9	221.1	201.2	193.4	191.5	190.5
22.5°	972.6	882.3	692.3	485.8	296.5	210.7	190.0	181.7	180.5	182.2	182.2
25°	943.6	840.5	616.7	373.7	217.7	177.3	170.0	168.1	172.7	179.0	180.3
27.5°	922.0	806.2	536.2	275.9	173.5	154.2	154.0	157.2	168.6	180.7	183.2
30°	907.2	773.6	450.0	199.0	145.5	135.7	139.6	146.4	163.2	180.5	185.1
32.5°	899.6	749.5	360.3	154.0	124.6	119.2	125.8	134.0	150.6	166.6	172.7
35°	905.5	731.8	275.6	128.4	110.0	105.8	112.6	120.7	130.4	137.2	141.8
37.5°	927.3	724.7	208.0	115.1	100.0	96.1	101.4	106.1	110.0	111.9	114.1
40°	974.5	732.2	166.6	108.3	94.4	89.5	91.7	93.4	95.8	97.8	98.8
42.5°	1044.1	754.9	149.4	105.6	91.5	84.4	83.9	84.7	87.8	91.5	92.2
45°	1141.4	794.8	148.2	107.3	90.0	80.3	78.1	79.1	83.9	89.5	90.5
47.5°	1265.7	855.6	157.9	112.4	91.2	78.1	74.4	75.7	81.7	89.3	90.5
50°	1416.3	940.5	174.2	119.9	96.6	78.6	73.2	74.0	80.3	88.6	89.8
52.5°	1594.1	1060.9	191.9	127.2	102.2	81.7	74.2	72.5	78.3	85.6	87.1
55°	1791.9	1215.4	210.2	133.8	105.1	85.6	76.1	70.5	74.7	80.8	82.0
57.5°	2034.7	1431.4	241.8	140.1	107.0	88.3	78.1	68.6	70.1	74.4	75.4
60°	2363.4	1736.9	297.5	150.6	111.4	89.3	77.8	66.9	65.4	67.9	68.4
62.5°	2757.2	2068.8	344.0	163.7	118.7	90.0	76.4	65.7	61.5	61.5	62.0
65°	2991.0	2157.6	318.2	174.7	124.8	89.3	74.7	64.5	58.6	56.0	56.2
67.5°	2792.7	1897.5	272.7	176.9	124.6	85.9	72.0	62.3	55.7	51.6	51.3
69°	2544.4	1637.2	252.3	171.0	118.7	81.5	68.6	59.8	53.5	49.1	48.9
70°	2344.1	1478.4	238.9	164.7	112.4	78.3	65.9	57.7	51.8	47.7	47.2
72.5°	1704.3	968.7	204.1	141.6	92.7	65.7	56.9	50.6	46.2	43.8	43.3
75°	851.7	462.0	165.7	114.8	71.0	52.5	46.7	42.3	40.1	39.7	39.4
77.5°	279.8	211.6	118.5	85.6	52.8	41.1	37.7	34.5	34.1	35.5	35.0
80°	153.7	123.1	75.2	56.7	36.0	30.2	29.7	28.0	28.7	31.1	30.7
82.5°	78.3	64.0	46.5	34.1	24.3	21.7	23.6	22.6	23.6	25.8	25.5
85°	38.7	35.0	29.4	20.7	16.1	13.9	16.8	17.5	18.0	19.7	19.7
87.5°	22.4	20.7	15.6	9.7	8.0	7.3	9.7	9.5	11.2	12.2	11.9
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)