

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: P191159

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191159
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-SL3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 5151.6 lumens
Efficiency: N/A
Efficacy: 117.1 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

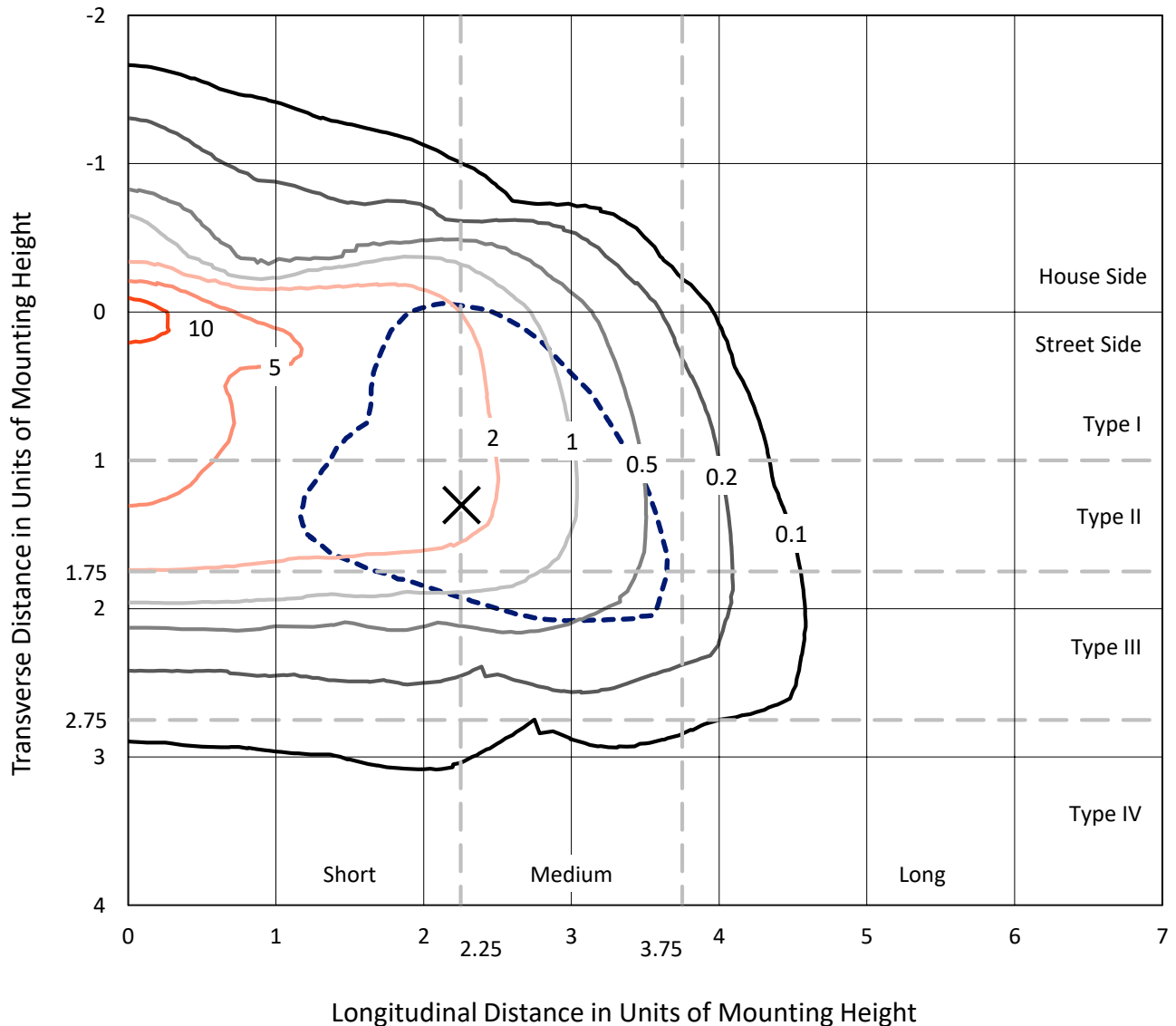
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

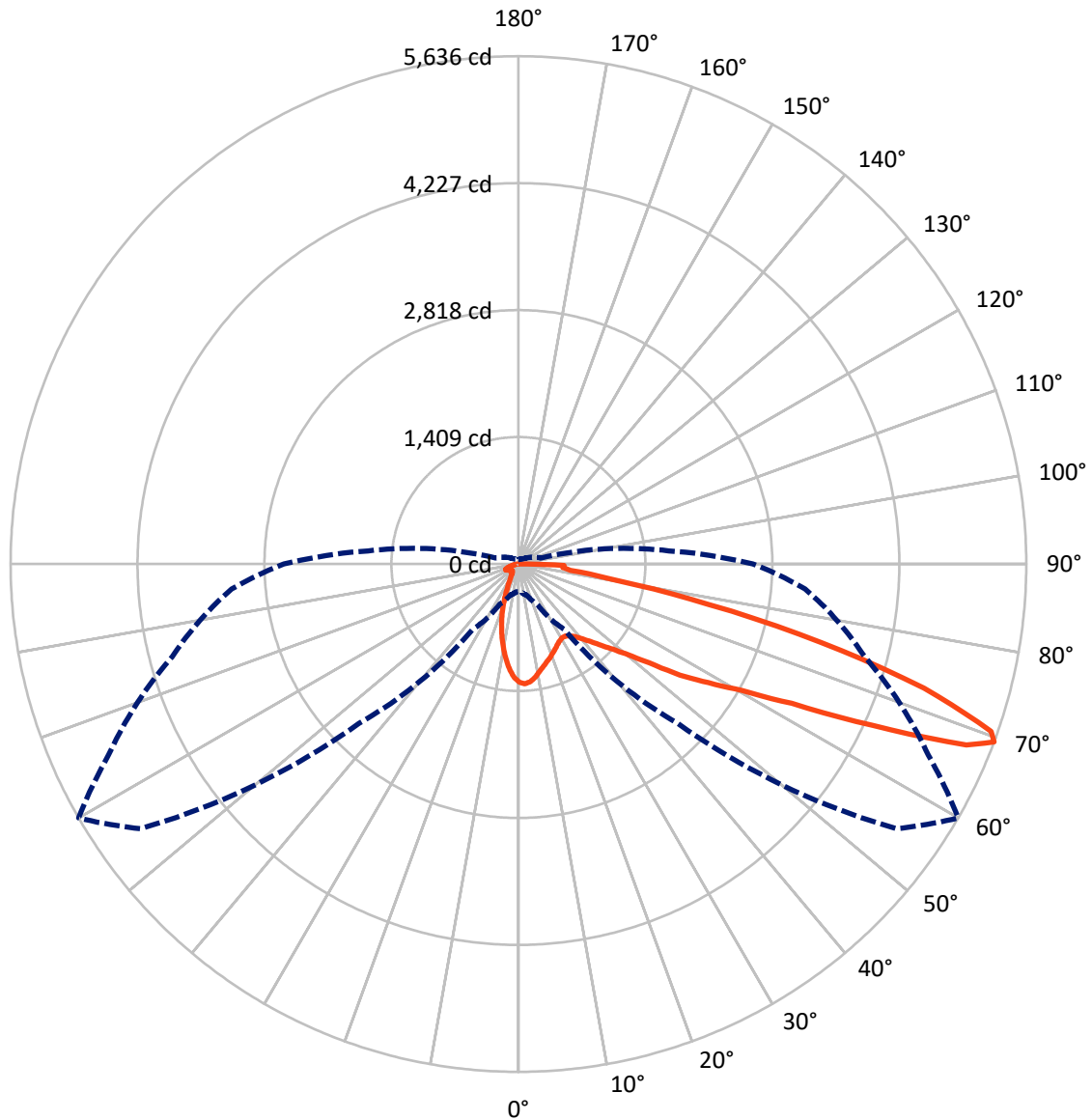
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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	732.9	0.0	732.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4418.7	0.0	4418.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	5151.6	0.0	5151.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	2.2
10°-20°	236.5	4.6
20°-30°	301.3	5.8
30°-40°	414.2	8.0
40°-50°	672.1	13.0
50°-60°	1077.9	20.9
60°-70°	1434.6	27.8
70°-80°	774.6	15.0
80°-90°	129.3	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°	5151.6	100.0
0°-180°	5151.6	100.0



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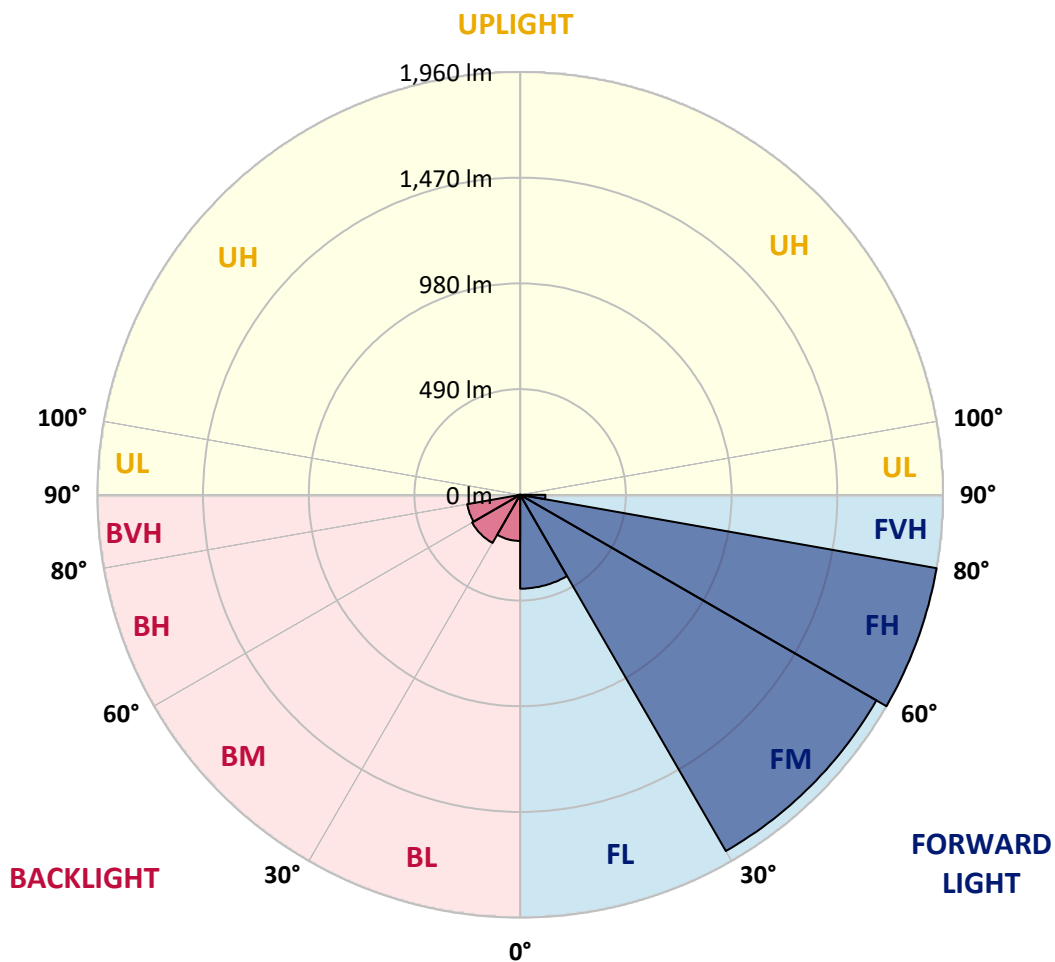
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.0	8.4			
FM	(30°-60°)	1906.8	37.0			
FH	(60°-80°)	1960.1	38.0			G2/5000
FVH	(80°-90°)	116.8	2.3			G2/225
BL	(0°-30°)	213.8	4.2	B1/500		
BM	(30°-60°)	257.5	5.0	B1/1000		
BH	(60°-80°)	249.2	4.8	B1/500		G1/500
BVH	(80°-90°)	12.5	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°	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7
2.5°	1339.6	1342.5	1341.3	1340.6	1342.8	1339.3	1332.1	1329.8	1326.4	1318.2	1304.3
5°	1289.3	1298.2	1297.8	1304.5	1315.7	1318.7	1315.4	1315.9	1309.5	1299.2	1276.1
7.5°	1202.5	1206.2	1208.2	1222.8	1243.3	1259.7	1273.7	1278.1	1275.1	1266.4	1236.5
10°	1112.9	1115.8	1120.5	1137.7	1163.6	1186.3	1212.7	1227.8	1234.3	1232.9	1199.5
12.5°	1035.9	1039.0	1045.1	1064.6	1095.5	1123.3	1161.7	1180.6	1196.0	1205.2	1169.3
15°	967.0	973.5	979.5	1001.9	1036.5	1073.1	1116.3	1140.3	1164.1	1184.8	1142.7
17.5°	913.3	919.7	923.2	943.7	980.5	1025.3	1076.0	1104.2	1134.0	1167.9	1116.3
20°	882.2	885.2	883.7	895.1	928.2	975.8	1035.9	1068.6	1104.7	1151.9	1090.0
22.5°	873.5	873.7	868.3	867.1	888.4	928.4	993.2	1032.8	1077.1	1141.5	1067.3
25°	894.7	893.9	878.9	866.7	869.0	892.4	951.9	997.9	1053.8	1139.3	1050.0
27.5°	941.6	943.9	921.8	898.9	876.3	875.4	920.6	969.0	1035.0	1149.5	1042.5
30°	1007.6	1011.3	987.7	958.6	916.1	881.0	908.3	951.9	1023.3	1170.6	1041.2
32.5°	1079.7	1083.7	1065.8	1035.2	979.5	914.8	916.8	953.4	1022.7	1200.2	1049.6
35°	1156.7	1161.2	1151.9	1126.1	1064.1	977.2	949.1	977.5	1039.0	1245.5	1072.4
37.5°	1242.5	1249.5	1252.0	1227.3	1161.2	1059.6	1002.1	1023.3	1075.5	1308.5	1113.9
40°	1366.3	1375.9	1375.2	1339.9	1272.3	1170.9	1084.0	1089.4	1132.5	1392.5	1180.3
42.5°	1603.1	1605.1	1543.1	1466.2	1394.8	1287.8	1180.6	1176.1	1211.2	1499.1	1278.1
45°	1904.4	1896.2	1758.4	1609.8	1522.8	1422.2	1306.2	1284.3	1310.9	1628.9	1400.5
47.5°	2154.5	2135.6	1961.5	1756.4	1658.1	1568.3	1453.8	1415.5	1430.2	1776.4	1558.8
50°	2241.4	2227.3	2082.9	1878.3	1786.3	1746.5	1635.5	1581.2	1585.2	1952.0	1744.2
52.5°	2222.8	2220.7	2124.5	1958.7	1906.2	1933.6	1892.8	1819.3	1780.5	2147.1	1944.3
55°	2178.7	2183.0	2148.1	2052.2	2043.3	2114.2	2229.0	2174.7	2054.1	2344.0	2151.1
57.5°	2025.6	2036.6	2113.2	2170.0	2264.1	2369.6	2499.7	2484.3	2348.4	2556.8	2397.0
60°	1632.0	1657.4	1862.9	2147.1	2491.3	2821.3	2879.5	2843.6	2652.0	2820.8	2721.7
62.5°	1143.5	1169.8	1414.2	1858.9	2454.0	3331.4	3558.3	3403.8	3088.0	3209.7	3142.0
65°	612.1	624.9	811.5	1289.8	2071.7	3436.7	4550.5	4315.3	3778.4	3689.3	3501.7
67.5°	337.7	344.6	416.0	651.2	1326.9	3026.3	5182.6	5360.3	4641.1	4008.5	3436.2
69°	305.4	311.8	358.6	493.3	887.9	2502.2	5120.9	5635.7	5019.4	3976.9	3194.3
70°	298.6	304.6	346.7	454.7	718.7	2062.5	4914.2	5565.4	5109.4	3863.7	2983.2
72.5°	268.7	275.3	316.1	408.4	614.2	1028.3	3892.5	4705.6	4638.9	3350.1	2262.9
75°	250.6	256.6	325.7	399.9	588.0	650.8	2566.2	3468.0	3410.0	2343.5	1220.2
77.5°	107.2	106.8	151.1	338.4	596.8	630.1	1378.9	2166.5	1976.6	1001.7	350.4
80°	71.7	70.4	71.7	99.5	547.3	633.6	722.4	1099.7	830.6	255.3	172.7
82.5°	61.7	60.8	62.9	60.8	192.3	723.1	614.2	584.8	395.0	145.1	85.6
85°	41.5	39.8	54.2	54.5	90.8	642.5	691.8	494.0	319.6	86.1	42.4
87.5°	19.9	19.4	31.6	38.6	53.3	261.1	776.2	506.2	322.2	44.1	20.2
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°	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7	1312.7
2.5°	1300.0	1289.8	1279.8	1267.9	1255.5	1241.6	1234.6	1227.6	1225.8	1223.9	1216.9
5°	1264.2	1249.7	1224.9	1197.5	1168.6	1140.5	1119.1	1105.6	1095.5	1090.3	1081.1
7.5°	1217.9	1196.8	1153.2	1105.9	1057.4	1013.1	974.8	950.6	927.7	917.0	904.8
10°	1173.8	1142.2	1074.5	1004.8	935.2	868.3	805.3	760.8	721.2	699.0	683.3
12.5°	1136.0	1092.7	998.9	904.6	809.1	713.7	619.4	545.2	483.2	450.7	434.0
15°	1099.2	1046.9	927.0	807.3	684.6	555.0	431.0	346.9	295.6	275.3	268.2
17.5°	1065.8	998.9	854.8	709.2	556.2	399.4	289.7	243.4	223.7	217.0	214.7
20°	1029.8	950.3	779.9	606.7	422.3	279.2	226.2	205.8	197.8	195.9	194.9
22.5°	994.9	902.5	708.2	496.9	303.3	215.5	194.4	185.9	184.6	186.4	186.4
25°	965.3	859.8	630.9	382.3	222.7	181.4	173.9	172.0	176.7	183.1	184.4
27.5°	943.2	824.7	548.5	282.2	177.5	157.7	157.5	160.8	172.5	184.8	187.4
30°	928.0	791.4	460.3	203.6	148.8	138.8	142.8	149.8	166.9	184.6	189.3
32.5°	920.2	766.7	368.6	157.5	127.5	121.9	128.7	137.1	154.1	170.4	176.7
35°	926.3	748.6	281.9	131.3	112.5	108.2	115.2	123.5	133.4	140.3	145.1
37.5°	948.6	741.3	212.8	117.7	102.3	98.3	103.7	108.5	112.5	114.5	116.7
40°	996.9	749.0	170.4	110.8	96.6	91.6	93.8	95.5	98.0	100.0	101.1
42.5°	1068.1	772.2	152.8	108.0	93.6	86.3	85.8	86.6	89.8	93.6	94.3
45°	1167.6	813.0	151.6	109.8	92.1	82.1	79.9	80.9	85.8	91.6	92.6
47.5°	1294.7	875.2	161.5	115.0	93.3	79.9	76.1	77.4	83.6	91.3	92.6
50°	1448.8	962.1	178.2	122.7	98.8	80.4	74.9	75.7	82.1	90.6	91.9
52.5°	1630.7	1085.2	196.3	130.1	104.5	83.6	75.9	74.2	80.1	87.6	89.1
55°	1833.0	1243.3	215.0	136.9	107.5	87.6	77.8	72.1	76.4	82.7	83.9
57.5°	2081.4	1464.3	247.3	143.3	109.5	90.3	79.9	70.2	71.7	76.1	77.1
60°	2417.6	1776.8	304.3	154.1	114.0	91.3	79.6	68.4	66.9	69.5	70.0
62.5°	2820.5	2116.3	351.9	167.5	121.4	92.1	78.2	67.2	62.9	62.9	63.4
65°	3059.6	2207.1	325.5	178.7	127.7	91.3	76.4	66.0	59.9	57.3	57.5
67.5°	2856.8	1941.0	279.0	181.0	127.5	87.9	73.7	63.7	57.0	52.8	52.5
69°	2602.8	1674.8	258.1	174.9	121.4	83.4	70.2	61.2	54.7	50.2	50.0
70°	2397.9	1512.3	244.4	168.5	115.0	80.1	67.4	59.0	53.0	48.8	48.3
72.5°	1743.4	990.9	208.8	144.8	94.8	67.2	58.2	51.8	47.3	44.8	44.3
75°	871.2	472.6	169.5	117.4	72.6	53.7	47.8	43.3	41.0	40.6	40.3
77.5°	286.2	216.5	121.2	87.6	54.0	42.0	38.6	35.3	34.9	36.3	35.8
80°	157.2	125.9	76.9	58.0	36.8	30.9	30.4	28.6	29.4	31.8	31.4
82.5°	80.1	65.5	47.6	34.9	24.9	22.2	24.1	23.1	24.1	26.4	26.1
85°	39.6	35.8	30.1	21.2	16.5	14.2	17.2	17.9	18.4	20.2	20.2
87.5°	22.9	21.2	16.0	9.9	8.2	7.5	9.9	9.7	11.5	12.5	12.2
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)