

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: P526127

Luminaire Tested: **GALN-SA1A-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2706 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

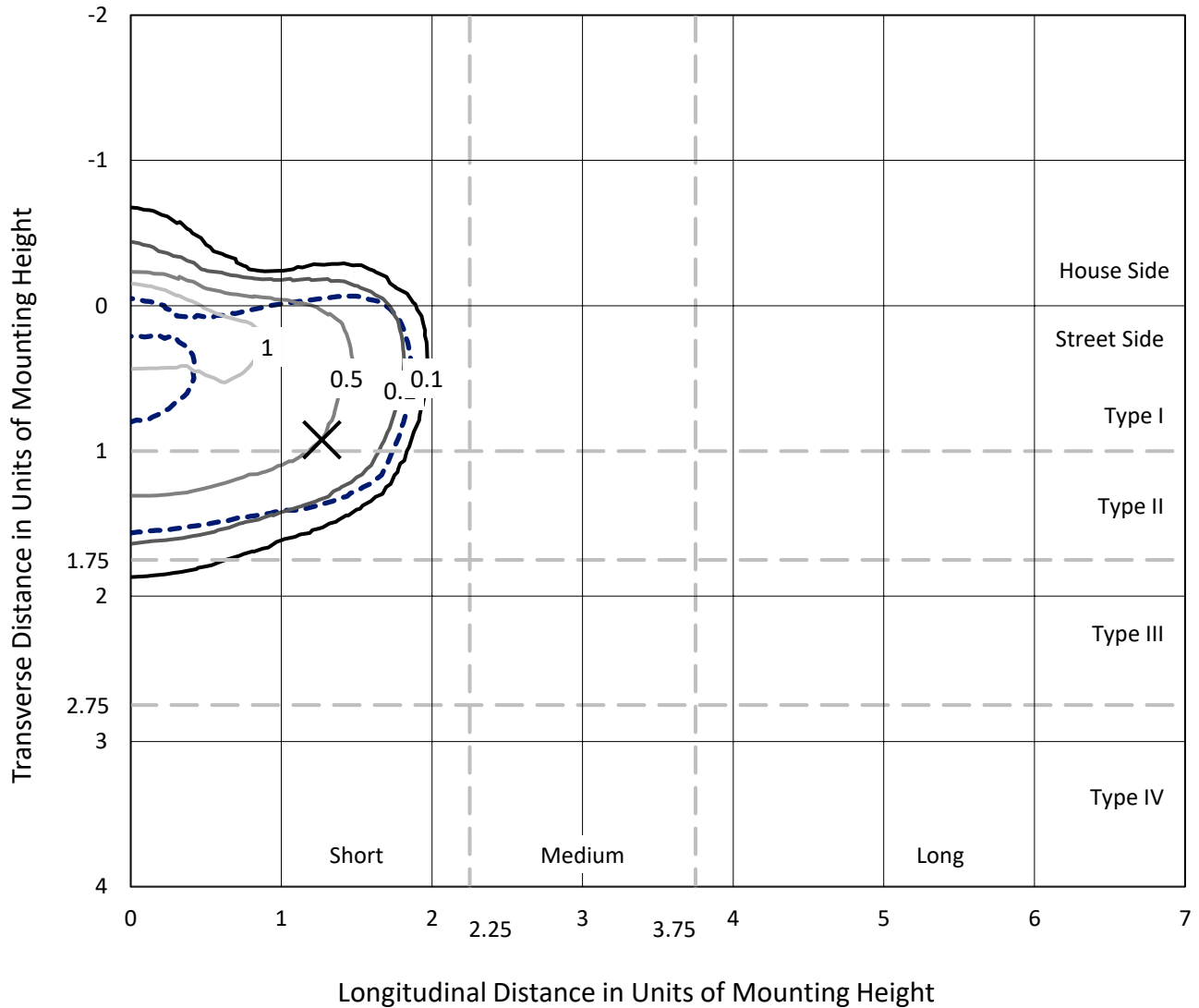
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

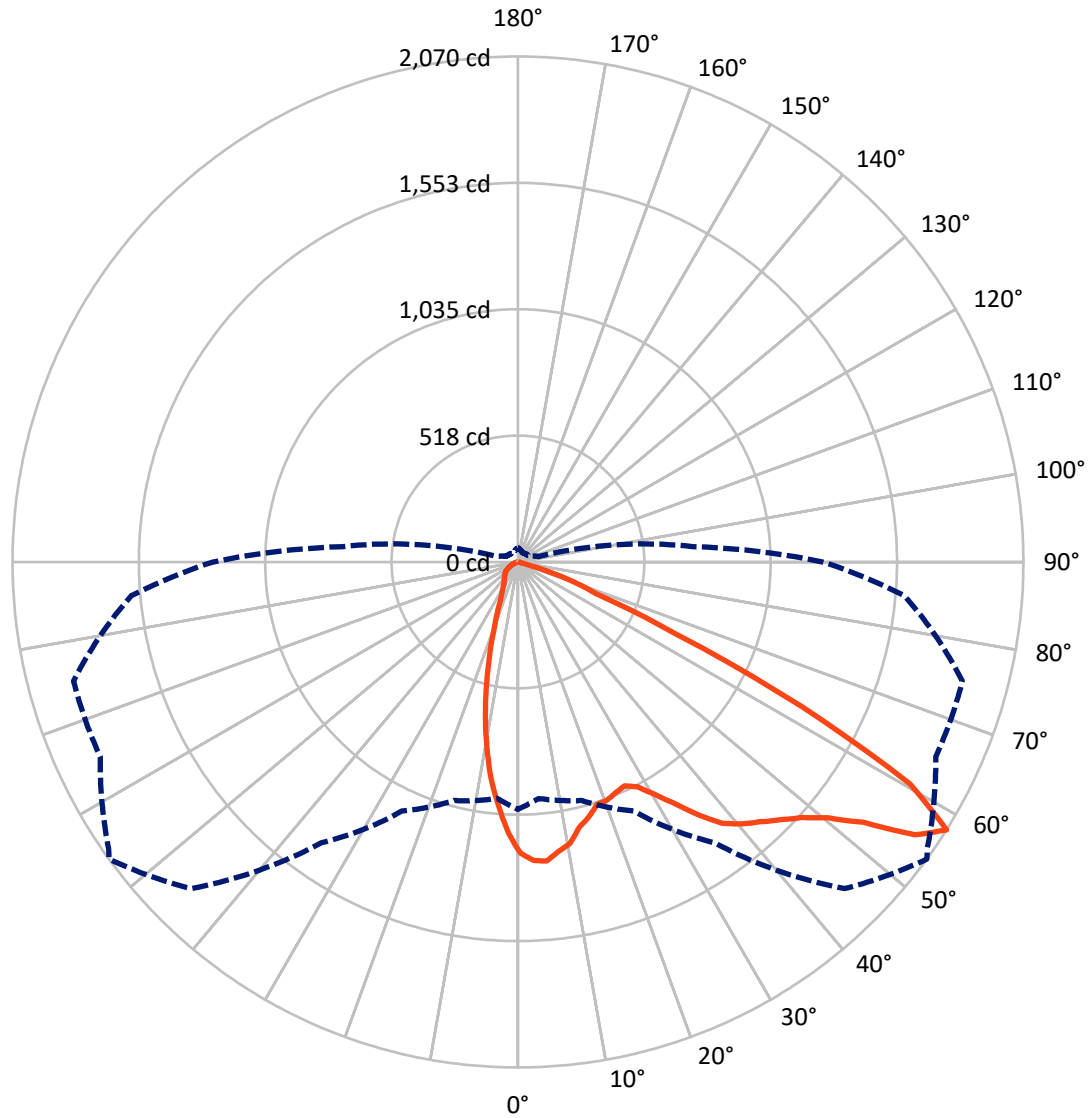
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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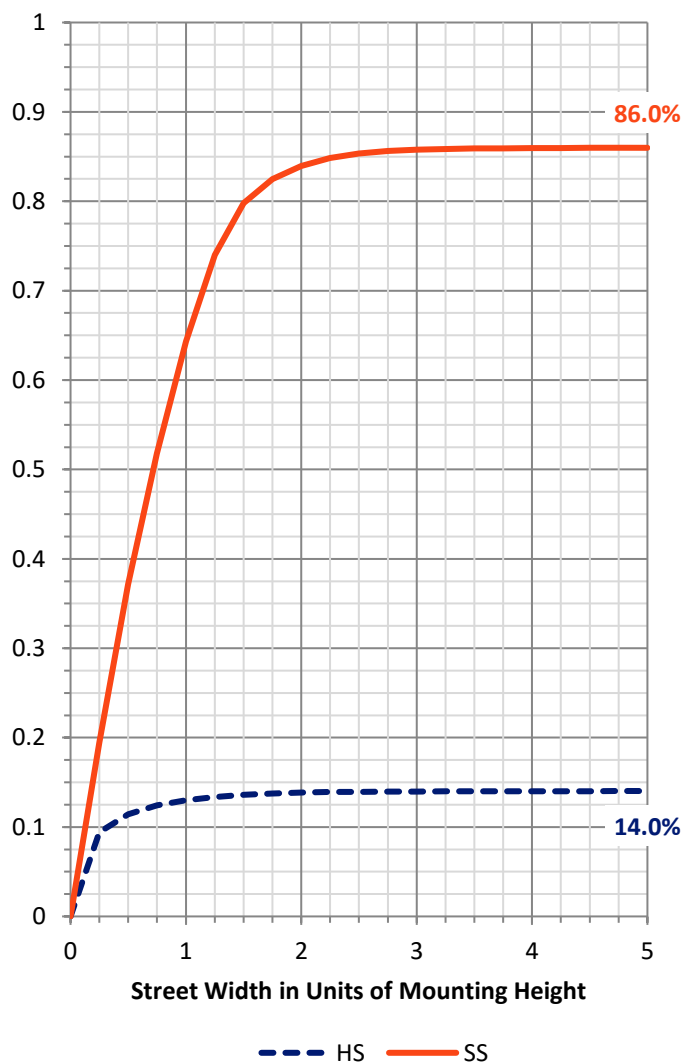
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.4	0.0	382.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2323.6	0.0	2323.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	2706.0	0.0	2706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.7
10°-20°	213.0	7.9
20°-30°	282.2	10.4
30°-40°	410.1	15.2
40°-50°	608.2	22.5
50°-60°	760.5	28.1
60°-70°	300.0	11.1
70°-80°	29.9	1.1
80°-90°	2.3	0.1
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°	2706.0	100.0
0°-180°	2706.0	100.0

Coefficient of Utilization



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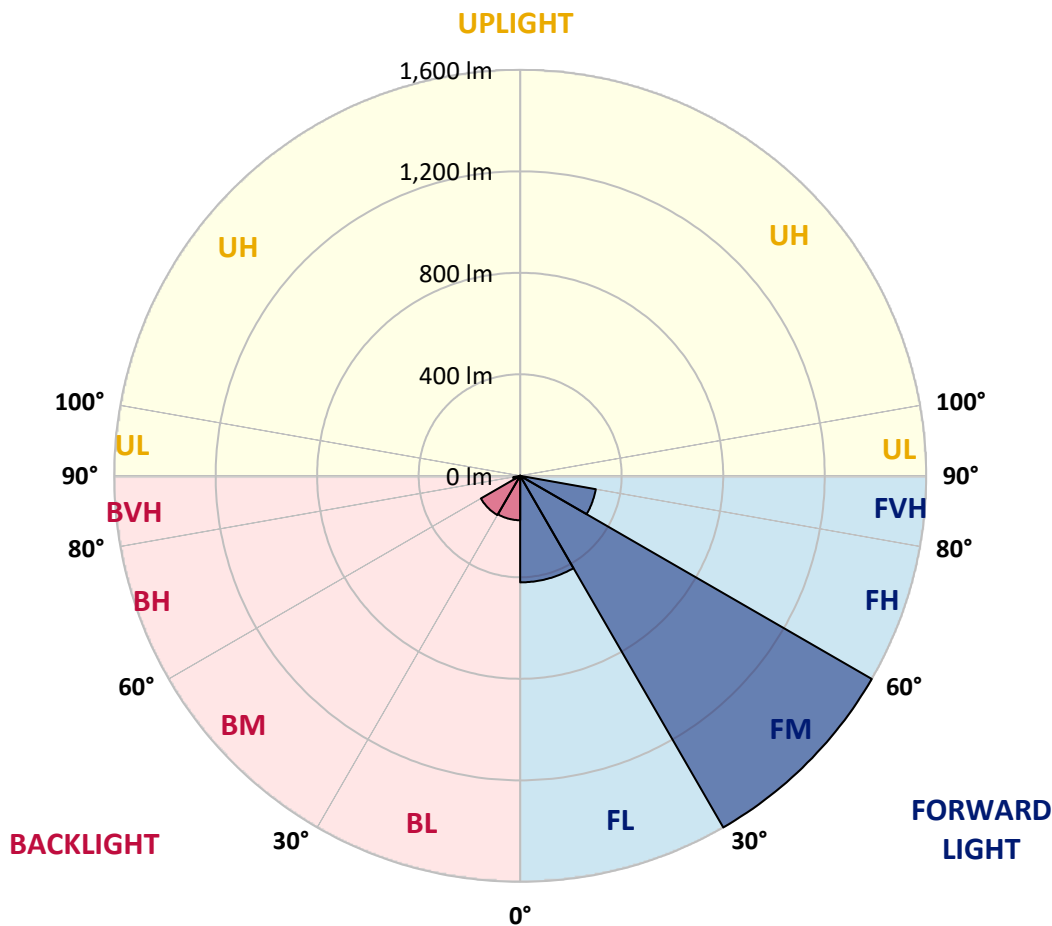
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.0	15.5			
FM (30°-60°)	1600.1	59.1			
FH (60°-80°)	302.4	11.2			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	174.9	6.5	B1/500		
BM (30°-60°)	178.8	6.6	B0/220		
BH (60°-80°)	27.4	1.0	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0
2.5°	1261.5	1248.4	1249.4	1244.9	1238.8	1243.4	1223.7	1228.3	1227.8	1201.1	1183.5
5°	1229.8	1243.9	1229.3	1241.3	1229.8	1242.3	1230.3	1221.2	1206.6	1187.0	1154.3
7.5°	1175.9	1162.3	1166.4	1181.5	1184.0	1212.2	1197.1	1208.6	1202.6	1163.9	1119.1
10°	1067.7	1064.7	1084.9	1105.0	1129.6	1159.8	1171.4	1164.9	1160.3	1145.7	1085.9
12.5°	984.7	993.3	992.8	1026.0	1067.7	1084.9	1115.0	1114.0	1139.2	1112.0	1054.7
15°	905.7	910.2	931.4	952.0	998.3	1047.1	1084.3	1089.4	1119.6	1100.5	1030.5
17.5°	857.4	850.9	867.5	892.1	939.4	1003.3	1044.6	1056.7	1097.9	1093.9	1002.8
20°	809.6	809.6	823.2	852.4	895.7	967.6	1041.1	1037.6	1097.9	1086.4	973.1
22.5°	793.5	801.6	805.1	827.2	878.5	940.4	1026.0	1032.5	1106.5	1082.8	960.1
25°	815.7	805.1	806.1	823.7	872.0	927.4	1014.9	1029.5	1122.1	1100.5	949.5
27.5°	819.2	829.7	832.8	844.8	877.0	931.4	1042.6	1072.3	1160.8	1141.7	952.5
30°	849.9	860.4	859.9	880.6	902.7	964.1	1104.5	1110.5	1240.8	1193.5	971.1
32.5°	887.1	898.2	901.7	925.8	943.5	1024.0	1180.0	1195.6	1317.8	1275.1	1019.9
35°	933.4	929.4	945.5	969.6	1007.4	1111.5	1272.0	1298.2	1400.8	1380.7	1070.3
37.5°	991.3	986.2	1001.8	1041.1	1092.4	1215.2	1357.1	1374.2	1461.2	1478.8	1163.3
40°	1032.0	1034.0	1081.3	1134.2	1188.5	1313.8	1410.9	1427.5	1503.5	1570.4	1233.8
42.5°	1099.9	1112.5	1169.4	1233.8	1290.7	1387.8	1454.7	1470.8	1523.1	1643.9	1328.9
45°	1198.6	1193.0	1255.9	1327.9	1390.8	1464.8	1506.5	1501.0	1534.7	1716.8	1388.8
47.5°	1325.4	1326.4	1368.1	1429.5	1494.9	1531.7	1564.4	1544.8	1558.8	1793.8	1468.8
50°	1411.9	1419.5	1453.2	1516.1	1548.8	1605.1	1646.9	1634.8	1630.3	1840.1	1519.1
52.5°	1434.1	1456.7	1474.8	1553.3	1629.8	1718.9	1772.2	1797.9	1717.3	1855.7	1583.0
55°	1267.0	1287.1	1351.0	1458.7	1660.5	1899.0	1972.5	1973.0	1831.1	1925.2	1627.8
57.5°	1012.9	972.1	1011.4	1125.6	1403.9	1891.4	2070.1	2046.4	1887.9	1884.4	1589.0
60°	700.4	690.4	692.9	738.2	971.6	1504.5	1844.7	1875.3	1738.5	1633.3	1257.9
62.5°	555.0	546.5	535.4	530.3	603.3	937.4	1301.2	1344.5	1215.7	1059.2	745.7
65°	434.7	429.7	431.2	451.4	450.8	531.9	711.5	693.9	555.5	410.6	234.5
67.5°	293.4	300.9	306.9	367.8	399.0	370.3	343.7	333.6	180.6	76.0	51.8
70°	165.0	166.0	172.6	230.0	302.9	287.3	237.0	237.0	90.1	27.7	29.7
72.5°	90.1	87.0	81.0	99.1	134.9	136.9	105.7	92.1	26.7	18.1	16.6
75°	43.8	43.3	37.2	30.7	29.2	24.2	18.6	17.1	12.1	11.6	10.1
77.5°	9.1	8.6	4.5	4.5	5.0	5.5	7.0	7.0	8.6	8.6	7.0
80°	0.0	0.0	0.5	2.0	3.5	5.0	6.0	6.0	7.0	7.0	5.5
82.5°	0.0	0.0	0.5	1.5	3.0	4.5	5.5	6.0	7.0	7.5	6.0
85°	0.0	0.0	0.0	1.0	2.5	3.5	3.0	3.0	2.5	2.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0
2.5°	1174.4	1173.4	1150.3	1137.2	1113.5	1092.9	1076.3	1064.2	1064.2	1056.7	1049.6
5°	1141.2	1132.7	1083.3	1051.6	1006.9	973.7	951.0	933.4	905.7	913.3	883.6
7.5°	1099.9	1078.3	1012.9	964.6	902.7	855.4	807.1	764.3	723.1	704.4	714.5
10°	1055.7	1017.9	929.9	853.4	776.4	689.9	633.5	565.1	522.8	520.3	509.2
12.5°	1008.9	966.1	858.9	753.3	652.1	548.0	461.9	398.0	369.3	337.6	343.7
15°	973.7	910.2	779.9	652.6	518.3	413.1	326.6	277.3	250.1	242.5	240.0
17.5°	935.4	867.5	699.4	545.4	406.6	297.4	235.0	211.3	200.8	200.8	199.3
20°	895.7	819.2	619.4	445.8	304.9	221.9	188.2	180.6	180.1	179.6	179.6
22.5°	869.5	763.8	547.0	354.2	230.0	177.6	163.5	160.5	162.5	168.6	168.6
25°	841.8	710.5	466.9	273.2	178.1	152.5	144.4	146.4	151.5	157.0	155.0
27.5°	813.6	675.8	391.5	214.4	145.9	133.3	130.3	134.9	140.4	145.4	143.9
30°	807.1	638.5	320.0	162.5	125.3	116.2	118.2	122.3	127.8	129.8	131.8
32.5°	817.2	609.3	262.2	133.3	109.2	106.7	106.7	108.7	112.2	116.7	115.2
35°	845.8	592.7	207.3	115.7	100.1	97.6	97.1	99.1	101.1	102.6	101.1
37.5°	889.6	579.7	169.6	102.6	94.1	90.1	89.1	88.6	90.6	91.1	92.1
40°	945.5	586.7	143.9	94.6	88.1	83.5	80.5	80.5	80.5	82.0	82.5
42.5°	1005.9	596.3	124.3	90.1	82.5	77.0	74.0	73.0	74.0	76.0	75.5
45°	1069.3	614.9	111.7	83.0	77.5	70.4	66.4	65.4	67.9	72.0	71.5
47.5°	1128.6	641.6	102.1	78.5	72.5	65.9	60.9	59.9	64.4	69.9	70.4
50°	1188.0	687.8	98.6	75.0	68.9	61.4	56.9	55.9	60.9	67.9	69.4
52.5°	1256.4	737.7	96.1	70.4	64.9	57.9	52.8	51.8	57.4	66.4	66.9
55°	1301.2	779.9	94.1	62.4	57.4	52.3	48.3	47.8	53.8	61.9	63.9
57.5°	1248.9	721.1	87.0	54.3	48.8	46.3	42.8	42.8	47.8	55.3	56.9
60°	947.0	474.5	61.9	43.8	41.3	39.8	38.2	38.2	42.3	47.8	48.3
62.5°	554.5	255.6	39.8	35.2	35.2	33.7	31.2	31.2	35.2	38.2	38.7
65°	164.5	82.0	32.2	30.2	29.7	27.2	24.7	24.2	27.2	28.7	28.2
67.5°	47.3	37.7	26.7	25.2	24.7	20.6	19.1	18.6	19.1	18.1	17.6
70°	28.2	25.7	20.6	21.1	18.6	15.1	13.6	13.1	12.1	10.6	9.6
72.5°	15.6	15.6	15.1	16.1	13.1	10.1	8.6	7.0	5.5	4.5	4.0
75°	9.6	10.1	10.6	11.1	8.6	6.5	5.5	3.5	2.0	1.0	1.0
77.5°	6.5	7.0	7.5	8.1	7.0	6.0	4.5	2.5	0.5	0.0	0.0
80°	5.0	5.5	6.5	7.0	7.5	8.1	6.0	2.5	0.5	0.0	0.0
82.5°	5.5	6.0	7.5	7.0	7.0	7.0	5.5	2.5	0.5	0.0	0.0
85°	1.0	1.5	2.5	2.5	3.5	4.5	3.5	1.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)