

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: P526101

Luminaire Tested: **GALN-SA1A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526101
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-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 2521 lumens
Efficiency: N/A
Efficacy: 76.4 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

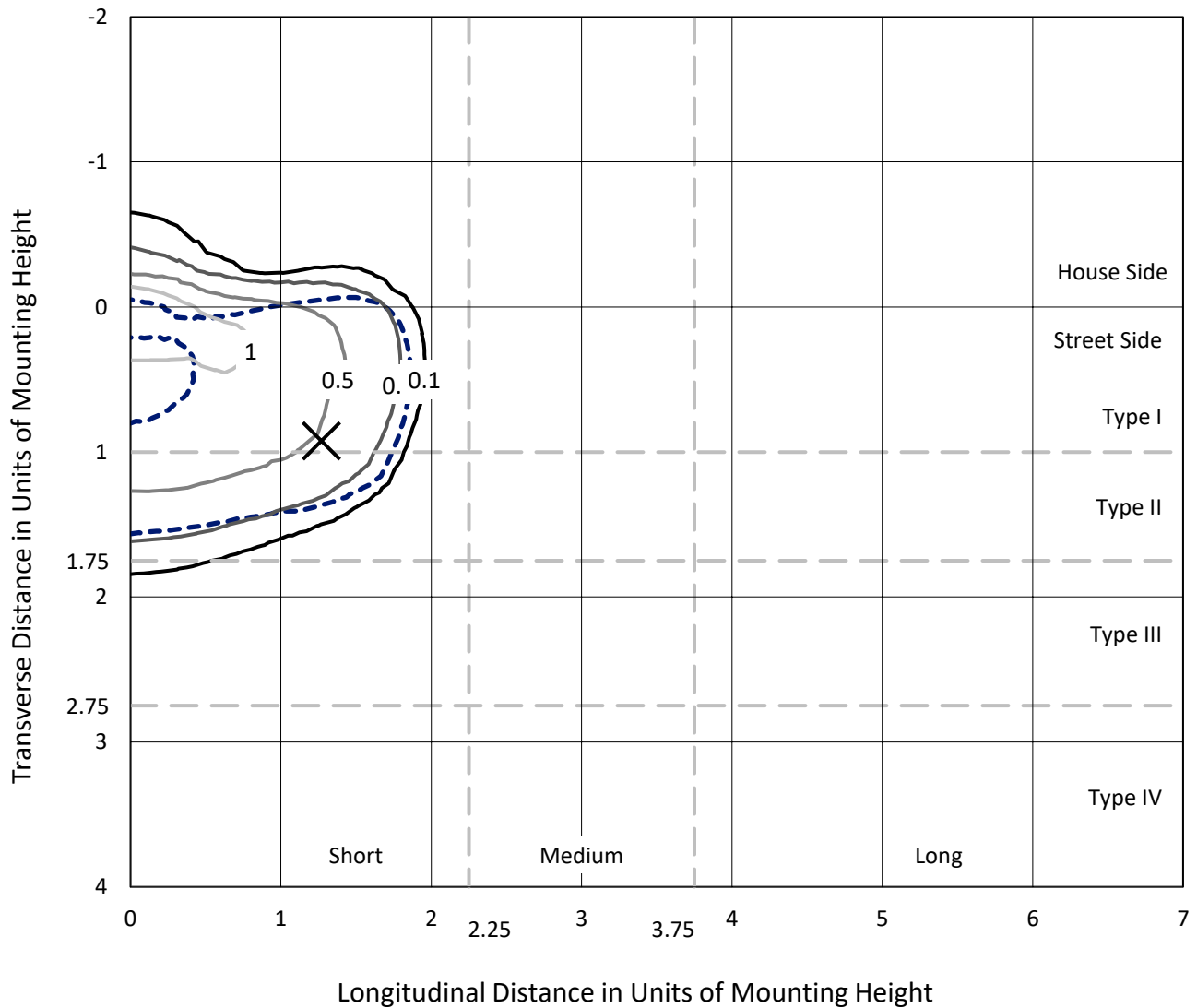
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

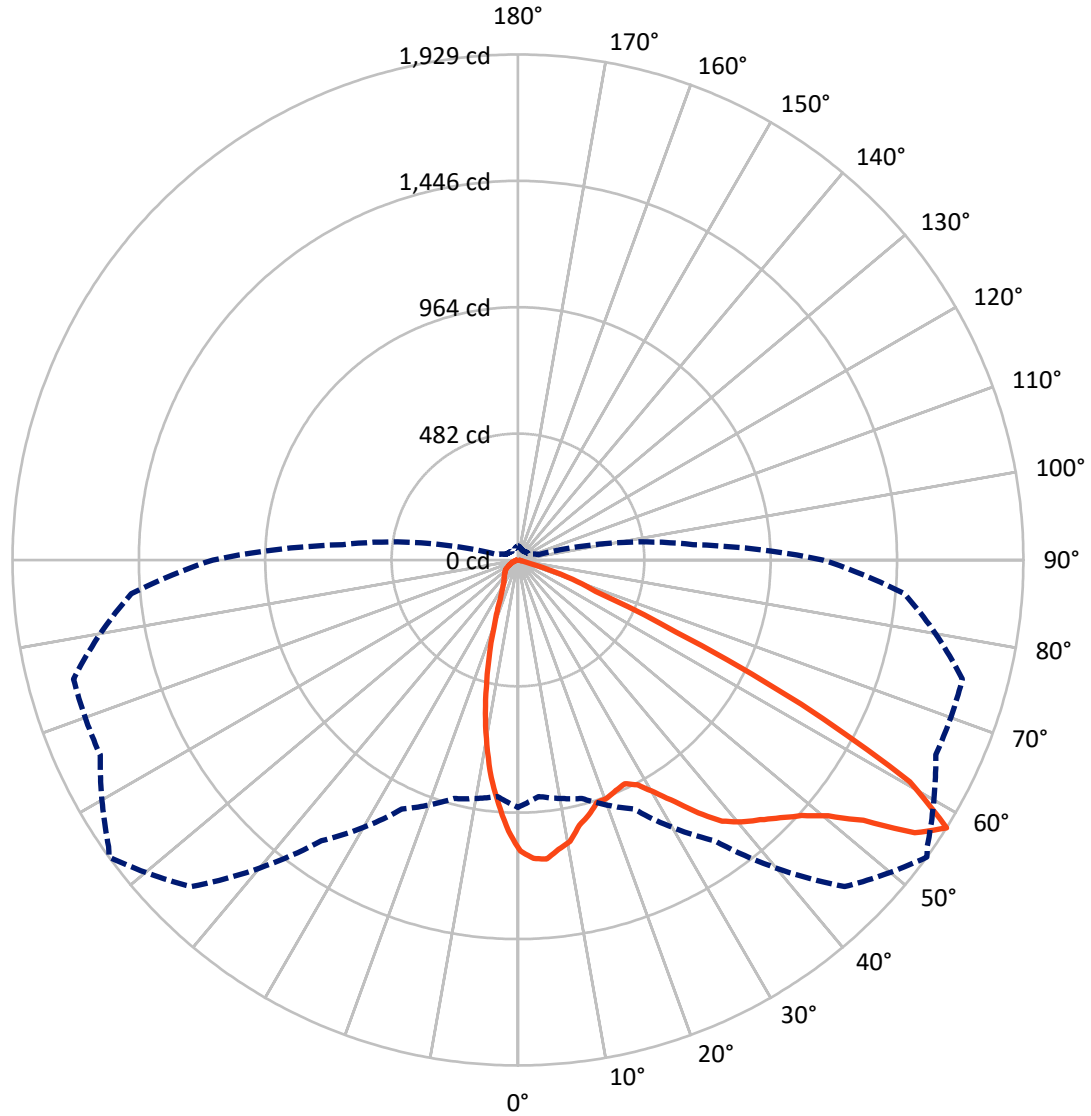
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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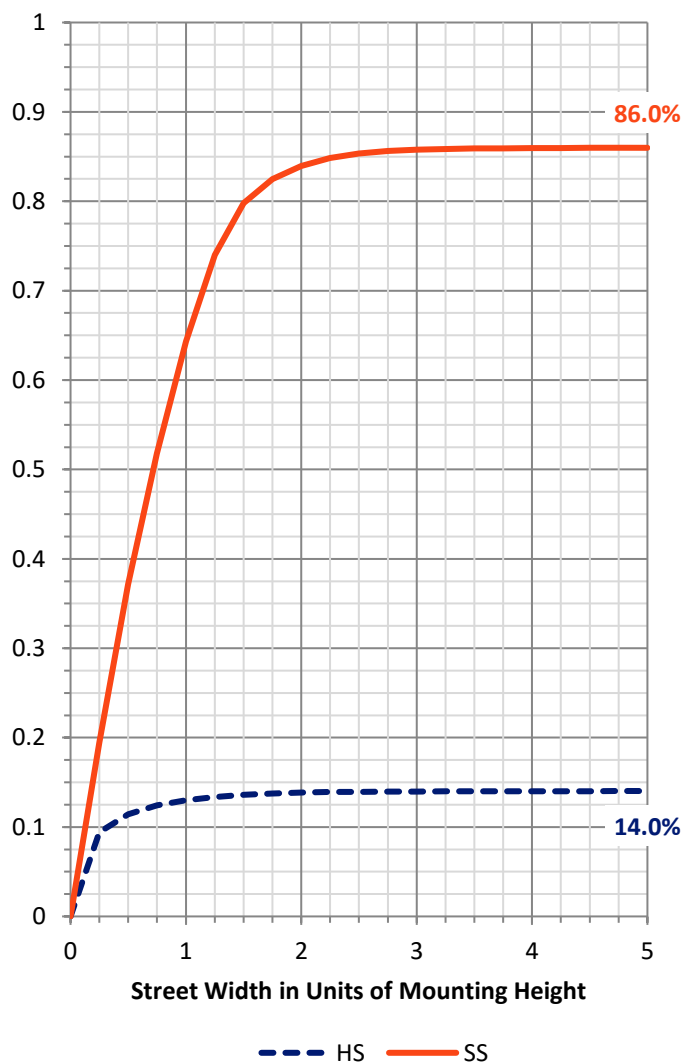
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	356.3	0.0	356.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2164.7	0.0	2164.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	2521.0	0.0	2521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	3.7
10°-20°	198.4	7.9
20°-30°	262.9	10.4
30°-40°	382.1	15.2
40°-50°	566.6	22.5
50°-60°	708.5	28.1
60°-70°	279.5	11.1
70°-80°	27.8	1.1
80°-90°	2.2	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°	2521.0	100.0
0°-180°	2521.0	100.0

Coefficient of Utilization



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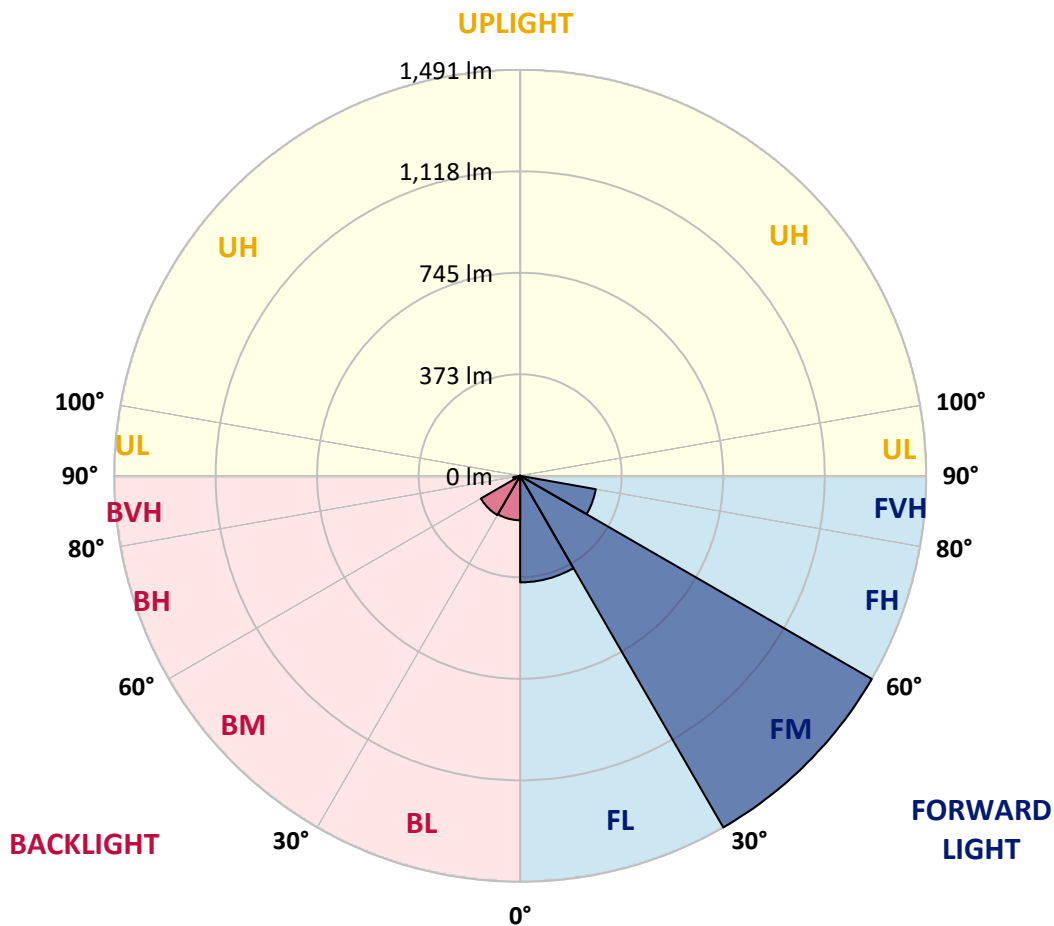
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.3	15.5			
FM (30°-60°)	1490.7	59.1			
FH (60°-80°)	281.8	11.2			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	162.9	6.5	B1/500		
BM (30°-60°)	166.6	6.6	B0/220		
BH (60°-80°)	25.5	1.0	B0/110		G0/110
BVH (80°-90°)	1.2	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°	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5
2.5°	1175.2	1163.0	1164.0	1159.8	1154.1	1158.3	1140.1	1144.3	1143.8	1119.0	1102.6
5°	1145.7	1158.8	1145.2	1156.5	1145.7	1157.4	1146.2	1137.7	1124.1	1105.8	1075.4
7.5°	1095.5	1082.9	1086.6	1100.7	1103.0	1129.3	1115.2	1126.0	1120.4	1084.3	1042.6
10°	994.7	991.9	1010.7	1029.4	1052.4	1080.5	1091.3	1085.2	1081.0	1067.4	1011.6
12.5°	917.4	925.4	924.9	955.8	994.7	1010.7	1038.8	1037.9	1061.3	1036.0	982.6
15°	843.8	848.0	867.7	886.9	930.1	975.5	1010.2	1014.9	1043.0	1025.2	960.1
17.5°	798.8	792.7	808.2	831.1	875.2	934.7	973.2	984.4	1022.9	1019.1	934.3
20°	754.3	754.3	766.9	794.1	834.4	901.5	969.9	966.6	1022.9	1012.1	906.6
22.5°	739.3	746.8	750.0	770.7	818.5	876.1	955.8	961.9	1030.8	1008.8	894.4
25°	759.9	750.0	751.0	767.4	812.4	864.0	945.5	959.1	1045.4	1025.2	884.6
27.5°	763.2	773.0	775.8	787.1	817.1	867.7	971.3	999.0	1081.5	1063.7	887.4
30°	791.8	801.6	801.1	820.4	841.0	898.2	1029.0	1034.6	1156.0	1111.9	904.7
32.5°	826.5	836.8	840.0	862.6	879.0	954.0	1099.3	1113.8	1227.7	1187.9	950.2
35°	869.6	865.8	880.8	903.3	938.5	1035.5	1185.1	1209.4	1305.1	1286.3	997.1
37.5°	923.5	918.8	933.3	969.9	1017.7	1132.1	1264.3	1280.2	1361.3	1377.7	1083.8
40°	961.5	963.3	1007.4	1056.6	1107.3	1224.0	1314.5	1329.9	1400.7	1463.1	1149.4
42.5°	1024.7	1036.5	1089.4	1149.4	1202.4	1292.9	1355.2	1370.2	1419.0	1531.5	1238.0
45°	1116.6	1111.5	1170.1	1237.1	1295.7	1364.6	1403.5	1398.4	1429.8	1599.5	1293.8
47.5°	1234.8	1235.7	1274.6	1331.8	1392.7	1427.0	1457.4	1439.1	1452.3	1671.2	1368.4
50°	1315.4	1322.4	1353.8	1412.4	1442.9	1495.4	1534.3	1523.1	1518.8	1714.3	1415.2
52.5°	1336.0	1357.1	1374.0	1447.1	1518.4	1601.3	1651.0	1674.9	1599.9	1728.9	1474.8
55°	1180.4	1199.1	1258.7	1359.0	1547.0	1769.2	1837.6	1838.1	1705.9	1793.5	1516.5
57.5°	943.6	905.7	942.2	1048.7	1307.9	1762.1	1928.6	1906.5	1758.9	1755.6	1480.4
60°	652.5	643.2	645.5	687.7	905.2	1401.6	1718.5	1747.1	1619.6	1521.7	1171.9
62.5°	517.1	509.1	498.8	494.1	562.1	873.3	1212.3	1252.6	1132.6	986.8	694.7
65°	405.0	400.3	401.7	420.5	420.0	495.5	662.9	646.4	517.5	382.5	218.5
67.5°	273.3	280.3	286.0	342.7	371.7	345.0	320.2	310.8	168.3	70.8	48.3
70°	153.8	154.7	160.8	214.2	282.2	267.7	220.8	220.8	83.9	25.8	27.7
72.5°	83.9	81.1	75.5	92.3	125.6	127.5	98.4	85.8	24.8	16.9	15.5
75°	40.8	40.3	34.7	28.6	27.2	22.5	17.3	15.9	11.3	10.8	9.4
77.5°	8.4	8.0	4.2	4.2	4.7	5.2	6.6	6.6	8.0	8.0	6.6
80°	0.0	0.0	0.5	1.9	3.3	4.7	5.6	5.6	6.6	6.6	5.2
82.5°	0.0	0.0	0.5	1.4	2.8	4.2	5.2	5.6	6.6	7.0	5.6
85°	0.0	0.0	0.0	0.9	2.3	3.3	2.8	2.8	2.3	1.9	0.9
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°	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5	1110.5
2.5°	1094.1	1093.2	1071.6	1059.4	1037.4	1018.2	1002.7	991.5	991.5	984.4	977.9
5°	1063.2	1055.2	1009.3	979.7	938.0	907.1	886.0	869.6	843.8	850.8	823.2
7.5°	1024.7	1004.6	943.6	898.6	841.0	796.9	751.9	712.1	673.6	656.3	665.7
10°	983.5	948.3	866.3	795.0	723.3	642.7	590.2	526.4	487.1	484.7	474.4
12.5°	939.9	900.1	800.2	701.8	607.5	510.5	430.3	370.8	344.1	314.5	320.2
15°	907.1	848.0	726.6	608.0	482.8	384.9	304.2	258.3	233.0	226.0	223.6
17.5°	871.5	808.2	651.6	508.2	378.8	277.0	218.9	196.9	187.0	187.0	185.6
20°	834.4	763.2	577.1	415.3	284.1	206.7	175.3	168.3	167.8	167.4	167.4
22.5°	810.0	711.6	509.6	330.0	214.2	165.5	152.4	149.5	151.4	157.0	157.0
25°	784.3	661.9	435.0	254.5	165.9	142.0	134.5	136.4	141.1	146.3	144.4
27.5°	758.0	629.6	364.7	199.7	135.9	124.2	121.4	125.6	130.8	135.5	134.1
30°	751.9	594.9	298.1	151.4	116.7	108.3	110.2	113.9	119.1	120.9	122.8
32.5°	761.3	567.7	244.2	124.2	101.7	99.4	99.4	101.3	104.5	108.8	107.4
35°	788.0	552.2	193.1	107.8	93.3	90.9	90.5	92.3	94.2	95.6	94.2
37.5°	828.8	540.0	158.0	95.6	87.7	83.9	83.0	82.5	84.4	84.8	85.8
40°	880.8	546.6	134.1	88.1	82.0	77.8	75.0	75.0	75.0	76.4	76.9
42.5°	937.1	555.5	115.8	83.9	76.9	71.7	68.9	68.0	68.9	70.8	70.3
45°	996.2	572.8	104.1	77.3	72.2	65.6	61.9	60.9	63.3	67.0	66.6
47.5°	1051.5	597.7	95.2	73.1	67.5	61.4	56.7	55.8	60.0	65.2	65.6
50°	1106.8	640.8	91.9	69.8	64.2	57.2	53.0	52.0	56.7	63.3	64.7
52.5°	1170.5	687.2	89.5	65.6	60.5	53.9	49.2	48.3	53.4	61.9	62.3
55°	1212.3	726.6	87.7	58.1	53.4	48.8	45.0	44.5	50.2	57.7	59.5
57.5°	1163.5	671.8	81.1	50.6	45.5	43.1	39.8	39.8	44.5	51.6	53.0
60°	882.2	442.1	57.7	40.8	38.4	37.0	35.6	35.6	39.4	44.5	45.0
62.5°	516.6	238.1	37.0	32.8	32.8	31.4	29.1	29.1	32.8	35.6	36.1
65°	153.3	76.4	30.0	28.1	27.7	25.3	23.0	22.5	25.3	26.7	26.3
67.5°	44.1	35.2	24.8	23.4	23.0	19.2	17.8	17.3	17.8	16.9	16.4
70°	26.3	23.9	19.2	19.7	17.3	14.1	12.7	12.2	11.3	9.8	8.9
72.5°	14.5	14.5	14.1	15.0	12.2	9.4	8.0	6.6	5.2	4.2	3.8
75°	8.9	9.4	9.8	10.3	8.0	6.1	5.2	3.3	1.9	0.9	0.9
77.5°	6.1	6.6	7.0	7.5	6.6	5.6	4.2	2.3	0.5	0.0	0.0
80°	4.7	5.2	6.1	6.6	7.0	7.5	5.6	2.3	0.5	0.0	0.0
82.5°	5.2	5.6	7.0	6.6	6.6	6.6	5.2	2.3	0.5	0.0	0.0
85°	0.9	1.4	2.3	2.3	3.3	4.2	3.3	0.9	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)