

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: P647704

Luminaire Tested: **GALN-SA1A-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2968.4 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

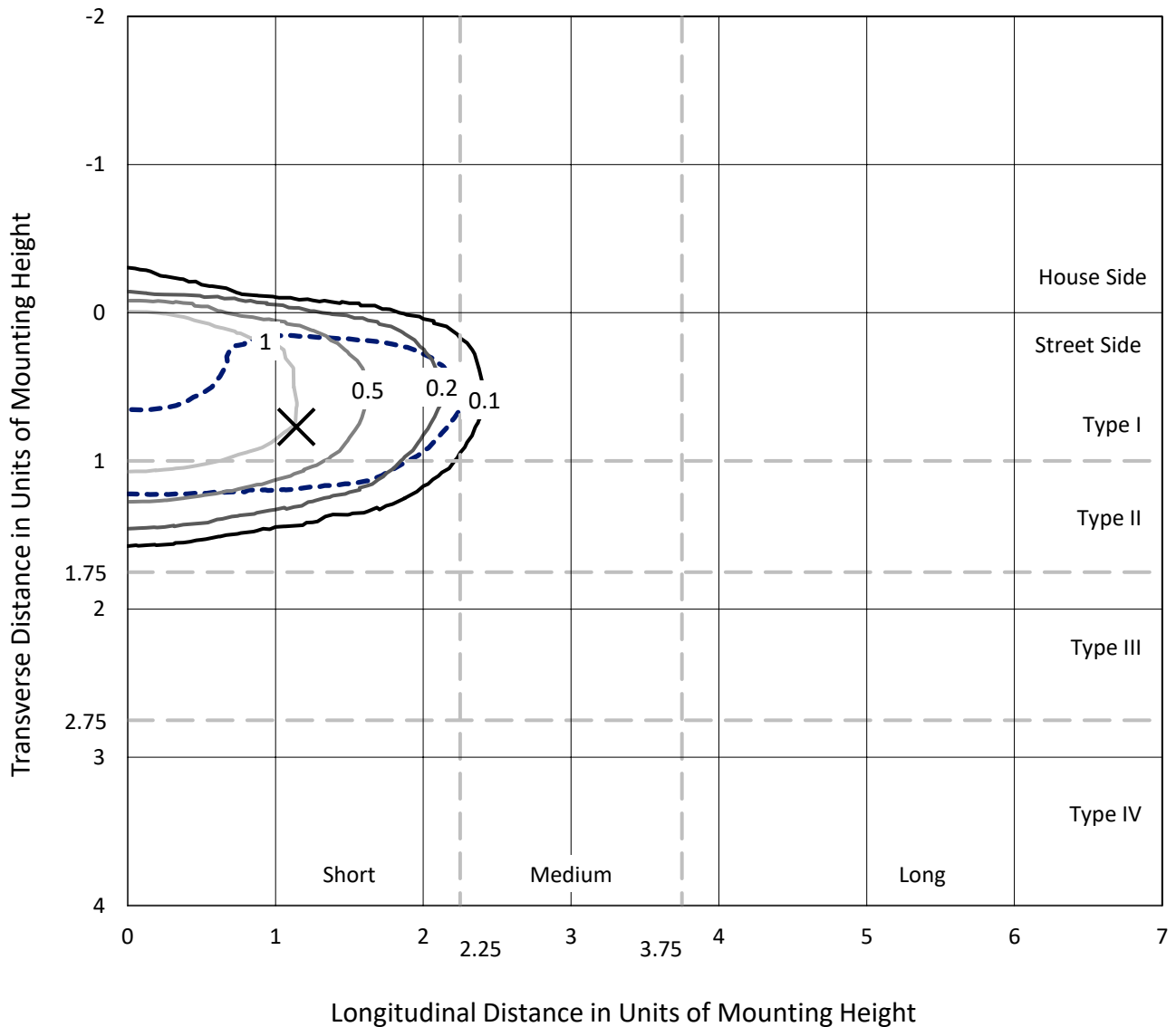
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

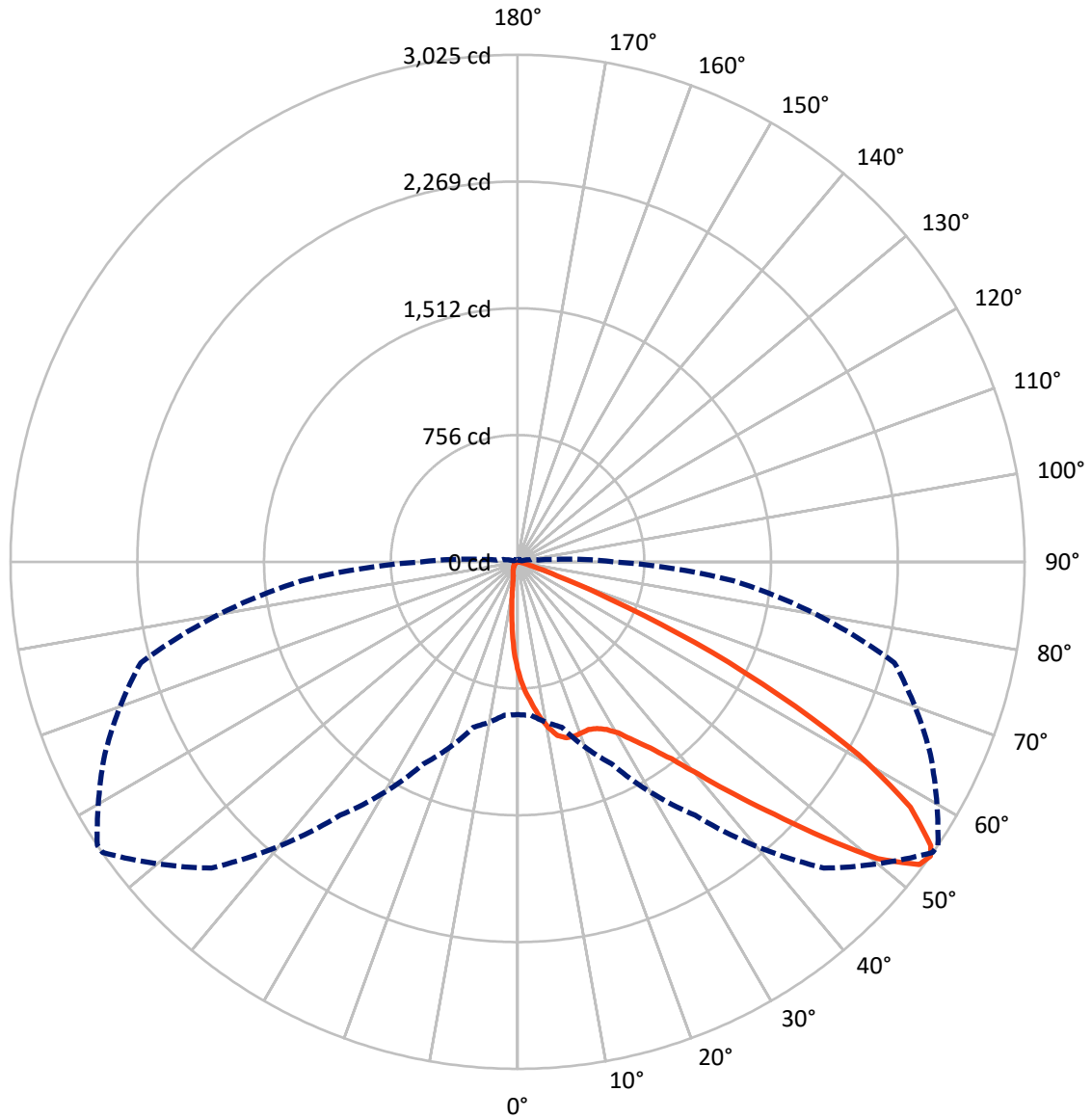
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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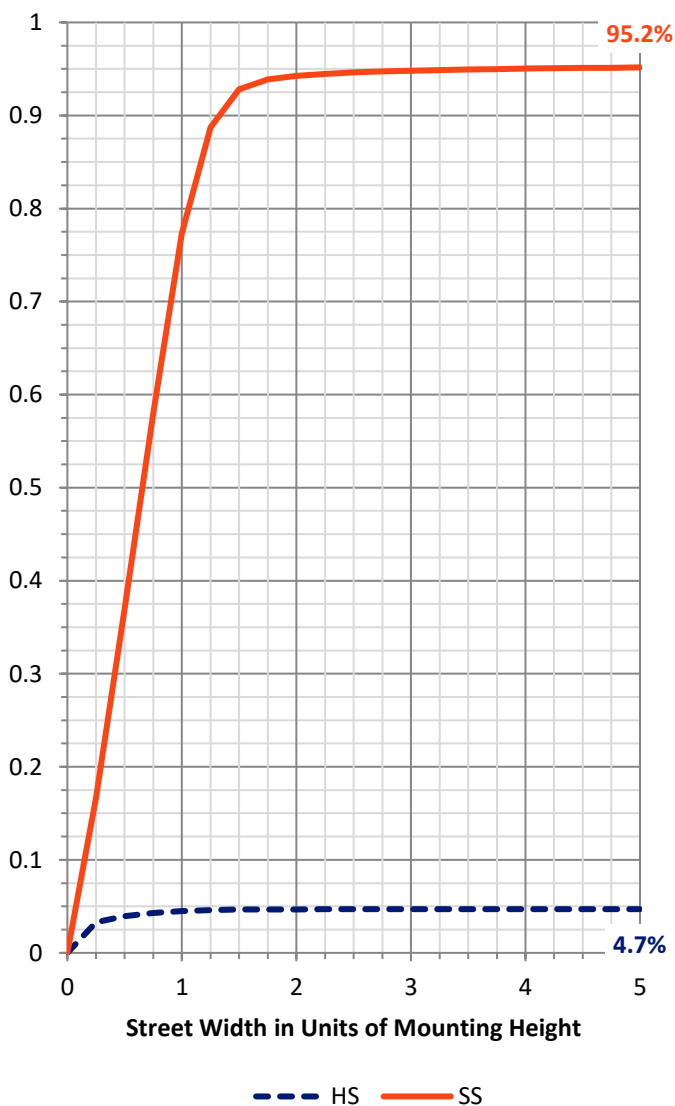
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.4	0.0	140.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	2828.0	0.0	2828.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	2968.4	0.0	2968.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	2.0
10°-20°	157.5	5.3
20°-30°	272.8	9.2
30°-40°	471.0	15.9
40°-50°	801.6	27.0
50°-60°	793.3	26.7
60°-70°	362.1	12.2
70°-80°	46.5	1.6
80°-90°	5.2	0.2
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°	2968.4	100.0
0°-180°	2968.4	100.0

Coefficient of Utilization

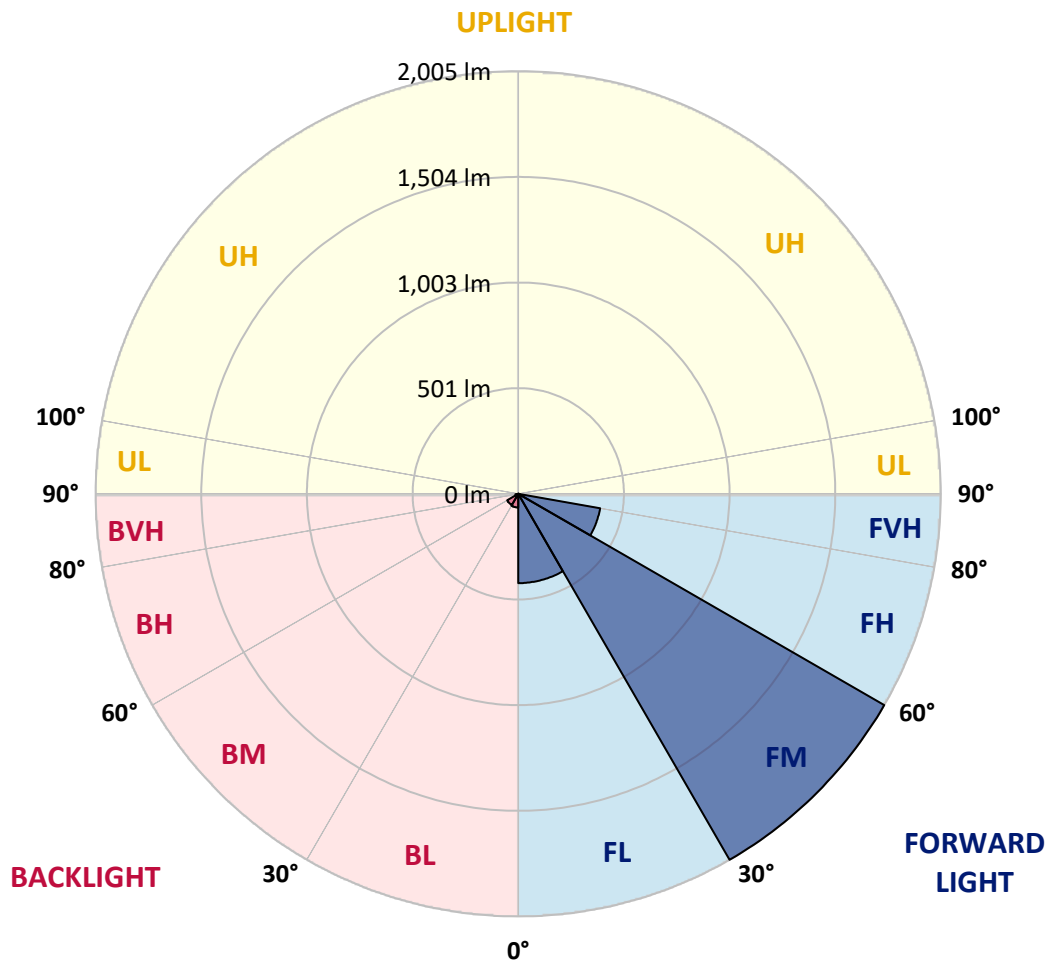


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.7	14.3			
FM (30°-60°)	2005.0	67.5			
FH (60°-80°)	394.5	13.3			G0/660
FVH (80°-90°)	4.7	0.2			G0/10
BL (0°-30°)	64.9	2.2	B0/110		
BM (30°-60°)	60.8	2.0	B0/220		
BH (60°-80°)	14.1	0.5	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
2.5°	838.1	832.3	824.3	818.1	803.4	782.5	760.2	760.2	738.8	708.9	678.5
5°	966.7	962.9	955.1	939.1	922.6	893.2	848.5	840.7	802.5	748.4	691.5
7.5°	1019.0	1020.8	1021.2	1017.0	1009.1	980.1	935.8	930.4	869.4	796.9	708.5
10°	968.9	977.7	986.3	1003.7	1028.4	1035.4	1010.4	1004.7	944.7	846.0	726.9
12.5°	894.4	899.2	904.0	931.5	980.9	1037.6	1063.9	1063.6	1012.7	894.8	750.4
15°	859.7	864.0	864.4	876.6	919.4	1001.9	1086.6	1089.6	1079.2	955.1	775.6
17.5°	866.9	870.4	867.6	870.5	893.0	962.7	1084.1	1094.1	1133.1	1013.0	798.5
20°	914.0	920.7	909.8	901.4	908.2	952.3	1075.2	1089.2	1171.1	1069.4	819.3
22.5°	998.6	1002.2	988.5	965.5	953.5	974.1	1072.9	1086.6	1203.6	1115.7	831.3
25°	1092.4	1091.3	1076.2	1050.4	1025.2	1018.1	1088.7	1101.1	1230.5	1157.4	834.9
27.5°	1186.4	1190.0	1164.8	1132.7	1102.5	1084.2	1124.1	1133.3	1260.7	1204.8	839.3
30°	1295.6	1289.8	1264.9	1228.2	1193.6	1168.2	1181.2	1183.8	1302.4	1267.7	851.0
32.5°	1437.5	1421.5	1393.7	1329.6	1304.7	1261.7	1264.9	1268.1	1353.0	1330.0	865.0
35°	1630.2	1629.3	1574.9	1488.6	1428.1	1374.6	1360.6	1363.2	1429.7	1422.5	896.0
37.5°	1862.1	1865.3	1803.2	1716.3	1604.9	1520.0	1491.2	1491.6	1546.3	1550.3	943.3
40°	2050.9	2059.4	2022.3	1963.6	1853.7	1720.9	1672.4	1668.0	1710.1	1705.1	1010.8
42.5°	2132.3	2140.1	2153.9	2174.3	2113.9	2004.2	1889.9	1896.0	1908.7	1873.7	1086.5
45°	2092.4	2104.8	2159.1	2285.3	2342.1	2305.3	2168.9	2147.8	2093.6	2056.9	1162.5
47.5°	1926.4	1956.6	2047.3	2257.4	2456.5	2581.1	2483.8	2455.9	2278.7	2190.8	1211.0
50°	1653.4	1655.2	1781.6	2050.1	2397.2	2755.1	2805.2	2784.3	2451.1	2265.8	1235.4
52.5°	1198.6	1238.1	1353.8	1664.8	2140.5	2728.7	3010.0	3001.4	2628.9	2304.3	1270.7
54°	911.3	918.9	1021.7	1330.4	1845.5	2583.4	3022.6	3024.7	2717.2	2327.5	1291.6
55°	747.0	728.7	836.9	1133.3	1644.2	2455.1	2981.4	2991.0	2756.9	2339.5	1307.0
57.5°	354.1	354.3	437.0	597.8	1029.8	1906.4	2729.2	2763.3	2761.3	2360.2	1354.4
60°	179.2	180.4	198.6	276.0	508.7	1267.3	2256.6	2337.7	2548.8	2363.2	1370.0
62.5°	125.4	123.9	121.0	132.8	214.1	644.1	1680.1	1750.6	2165.5	2248.8	1320.4
65°	107.3	104.4	95.9	94.1	108.1	256.5	1046.4	1161.3	1653.4	1947.2	1179.0
67.5°	91.7	90.5	82.9	78.3	76.5	111.7	540.0	600.4	1130.1	1399.7	893.0
70°	77.9	77.3	72.7	66.9	61.9	66.9	200.3	248.1	629.8	753.6	421.3
72.5°	63.3	63.9	64.7	57.3	52.1	47.4	85.5	99.5	263.6	269.4	147.4
75°	55.4	54.9	54.9	49.9	43.5	35.2	47.1	50.7	80.7	74.9	34.2
77.5°	39.1	37.7	44.1	41.0	36.3	25.1	26.9	28.4	33.4	28.7	16.1
80°	27.0	27.0	28.3	36.9	32.7	18.2	16.4	17.6	19.8	17.0	9.2
82.5°	15.2	15.7	18.4	19.7	19.0	12.2	10.8	11.0	13.2	11.6	5.8
85°	1.8	3.0	10.6	10.4	7.8	5.4	6.0	6.2	8.2	7.2	3.4
87.5°	0.2	0.4	2.2	2.8	2.0	2.2	2.2	2.2	2.8	3.2	2.4
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°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
2.5°	662.1	646.8	610.6	568.5	541.8	498.1	461.2	434.6	428.0	415.1	419.0
5°	661.3	629.6	555.8	477.6	394.3	332.2	286.0	249.5	233.5	222.9	215.5
7.5°	661.7	612.2	493.7	369.3	269.7	208.9	166.0	143.8	129.0	122.8	123.6
10°	662.9	592.6	421.6	273.6	182.0	135.0	108.8	98.1	93.1	92.3	92.2
12.5°	665.7	571.2	352.7	203.1	127.4	98.1	88.1	84.5	82.9	82.9	82.3
15°	668.7	547.6	295.4	151.0	98.1	84.3	79.7	77.9	76.9	76.9	76.7
17.5°	668.7	520.3	241.9	117.1	84.5	77.5	73.9	71.5	70.7	70.7	70.5
20°	664.5	488.7	194.5	94.4	76.7	71.1	67.5	64.9	63.9	63.5	63.3
22.5°	649.9	446.4	154.8	81.1	70.3	65.5	60.9	57.9	57.1	56.7	56.8
25°	623.8	398.7	122.5	71.3	64.5	58.6	54.7	52.5	51.7	51.7	51.8
27.5°	597.0	348.9	97.1	63.9	57.5	52.3	49.1	47.7	47.4	48.1	48.2
30°	572.1	298.8	78.7	57.9	51.3	46.9	44.6	44.2	44.2	44.5	44.6
32.5°	544.5	254.9	65.9	52.7	46.3	42.4	41.3	41.3	41.7	41.7	42.0
35°	527.1	217.3	57.9	47.7	42.4	39.2	38.4	38.7	39.2	40.1	40.5
37.5°	517.7	187.2	52.7	43.7	38.8	36.6	35.9	36.3	37.7	39.1	39.2
40°	518.5	164.6	48.5	40.2	36.0	33.7	33.0	34.2	35.6	37.0	37.3
42.5°	527.3	147.8	44.5	36.3	33.7	30.2	30.1	31.2	31.9	33.3	33.4
45°	537.7	135.6	40.2	32.0	29.2	26.2	26.5	27.4	28.3	30.5	30.9
47.5°	540.9	127.2	35.5	27.2	24.0	23.0	23.3	23.8	25.4	27.4	27.6
50°	544.5	122.0	30.9	23.0	20.4	20.2	20.4	20.8	21.8	22.6	22.4
52.5°	559.9	121.8	27.0	20.0	17.5	17.9	18.0	17.9	17.0	15.8	15.4
54°	574.3	122.4	25.2	18.6	16.1	16.6	16.4	15.4	13.4	12.2	11.6
55°	586.0	122.9	24.2	17.6	15.2	15.4	15.7	13.6	11.0	9.8	9.4
57.5°	608.8	121.6	21.8	15.4	13.4	12.6	12.4	9.0	6.0	5.2	4.8
60°	597.4	109.8	19.8	13.2	11.4	10.2	8.4	5.0	3.0	2.2	2.2
62.5°	552.6	93.1	17.6	10.8	9.4	7.8	4.4	2.8	1.4	0.8	0.6
65°	494.2	78.3	15.8	8.6	7.4	5.0	2.4	1.8	0.6	0.0	0.0
67.5°	367.5	58.1	13.4	6.8	5.6	3.2	1.6	1.0	0.2	0.0	0.0
70°	170.2	35.5	11.4	5.2	4.0	2.4	1.2	0.6	0.0	0.0	0.0
72.5°	48.9	22.2	9.4	3.8	2.8	2.0	1.0	0.4	0.2	0.0	0.0
75°	17.0	17.9	7.0	2.8	2.2	1.4	0.8	0.4	0.2	0.0	0.0
77.5°	10.2	14.4	4.4	2.4	1.8	1.2	0.8	0.4	0.2	0.2	0.0
80°	5.8	9.6	2.8	2.0	1.6	1.0	0.6	0.4	0.2	0.2	0.0
82.5°	3.2	4.6	2.2	1.8	1.4	1.0	0.6	0.4	0.2	0.2	0.2
85°	2.6	2.4	1.8	1.6	1.2	0.8	0.6	0.2	0.0	0.0	0.0
87.5°	2.0	1.6	1.6	1.6	1.2	0.8	0.6	0.2	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)