

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: P458521

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3566 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

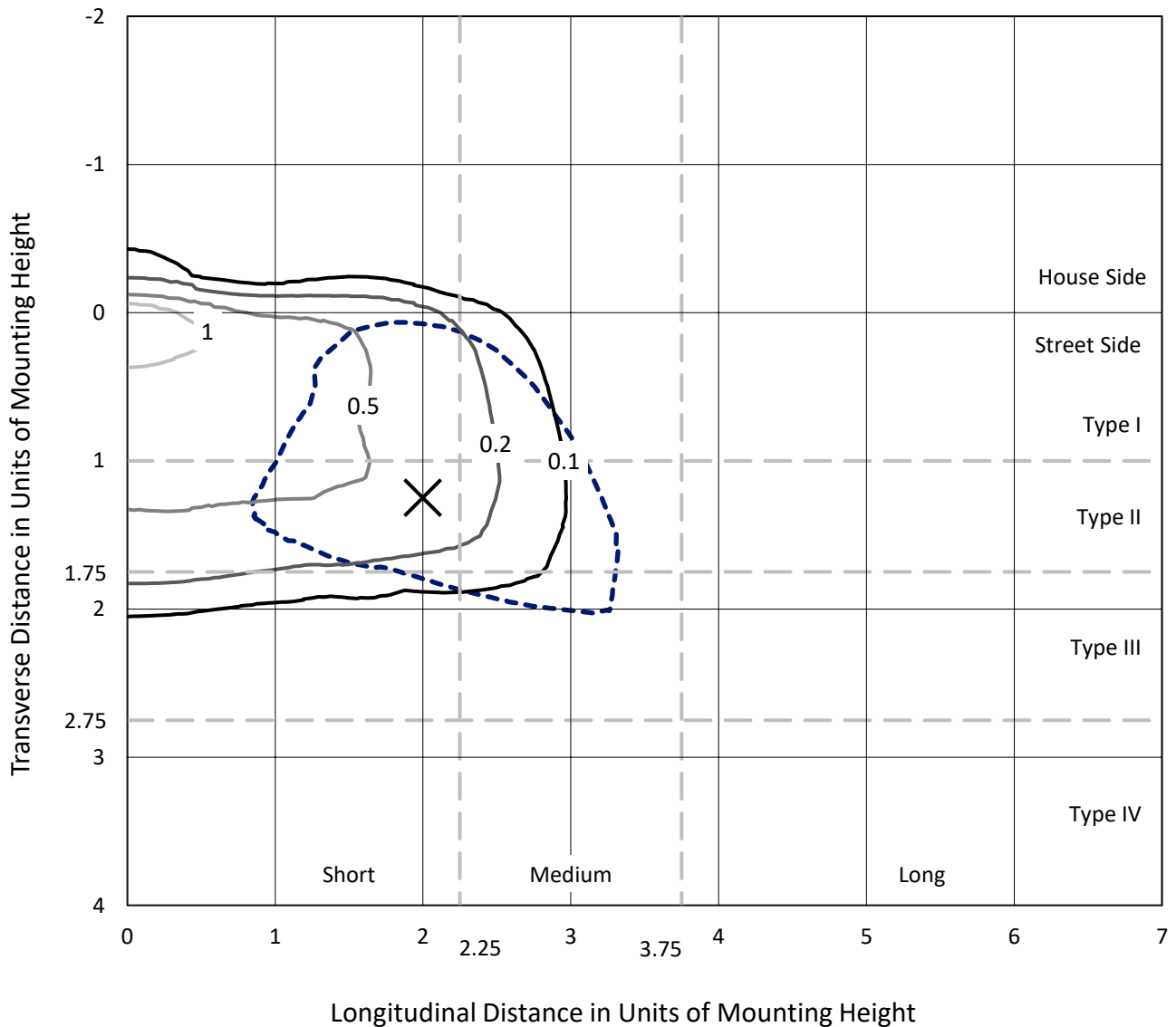
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

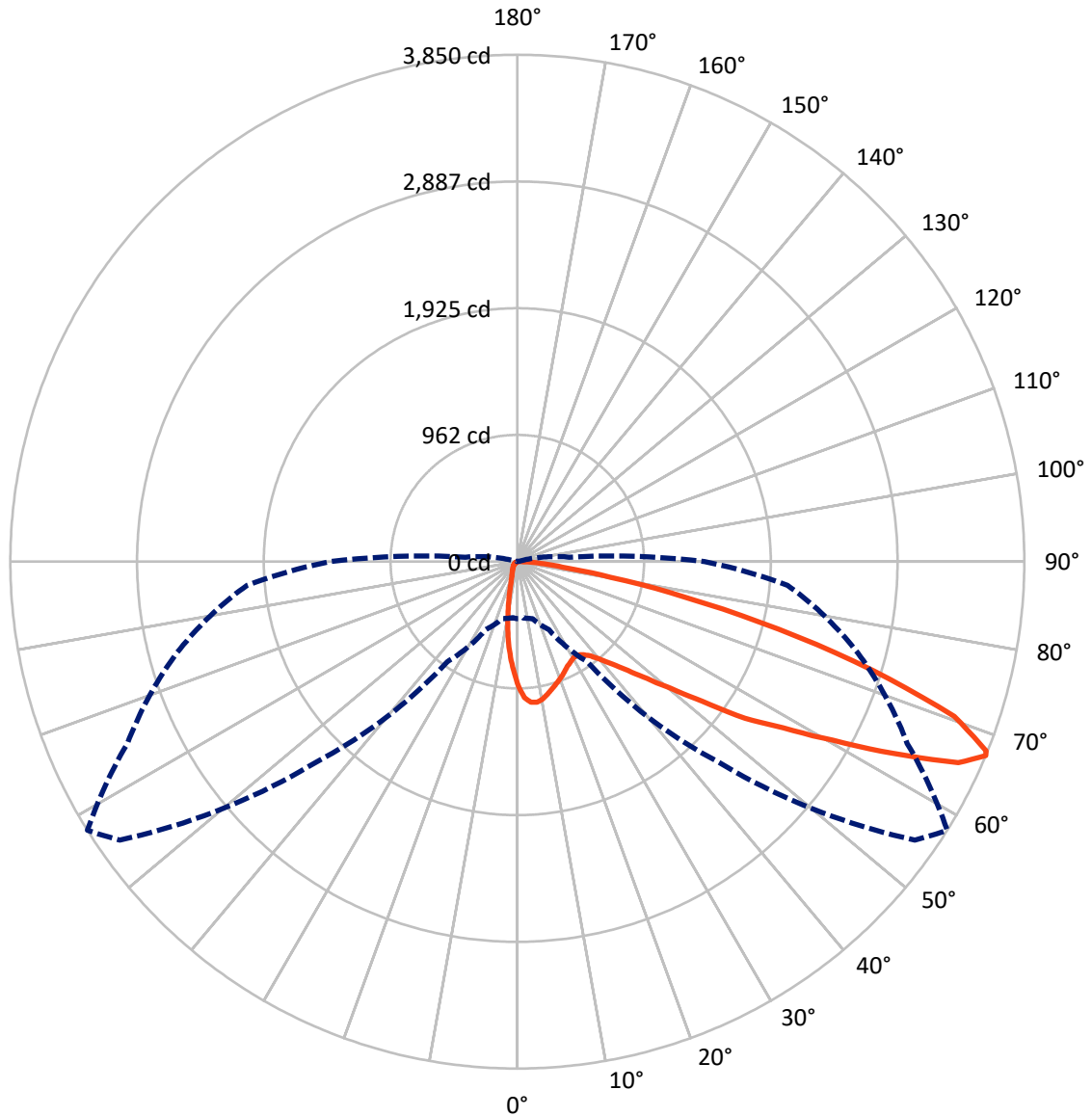
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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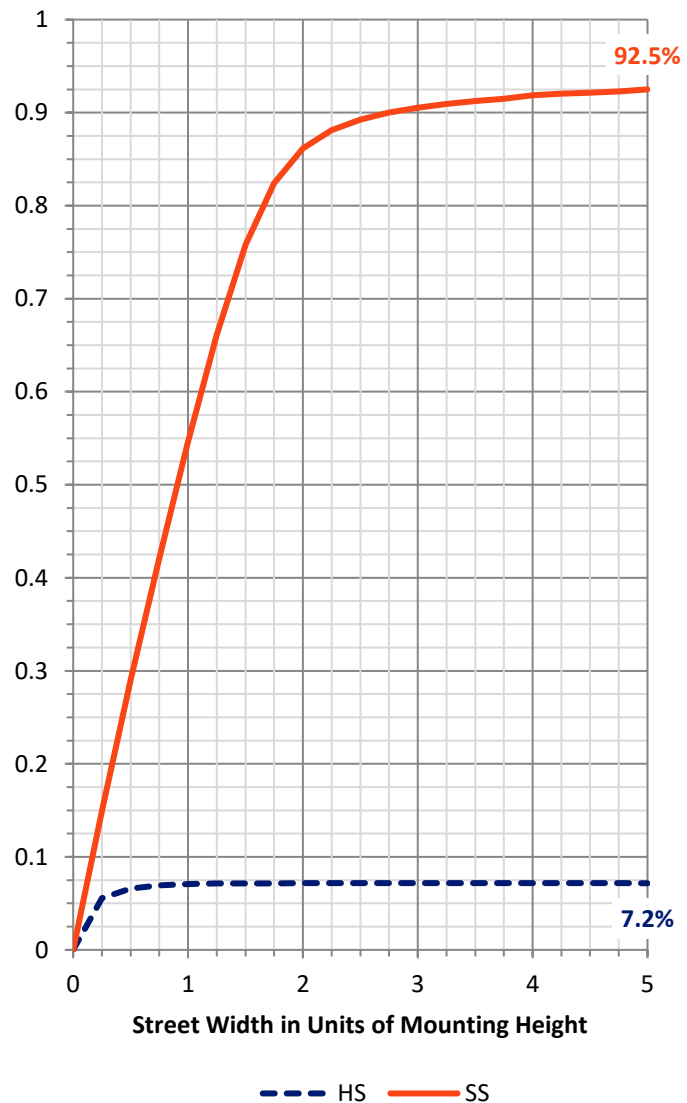
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.3	0.0	257.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3308.7	0.0	3308.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	3566.0	0.0	3566.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	2.2
10°-20°	165.7	4.6
20°-30°	224.5	6.3
30°-40°	311.4	8.7
40°-50°	496.6	13.9
50°-60°	858.4	24.1
60°-70°	980.6	27.5
70°-80°	408.8	11.5
80°-90°	43.3	1.2
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°	3566.0	100.0
0°-180°	3566.0	100.0



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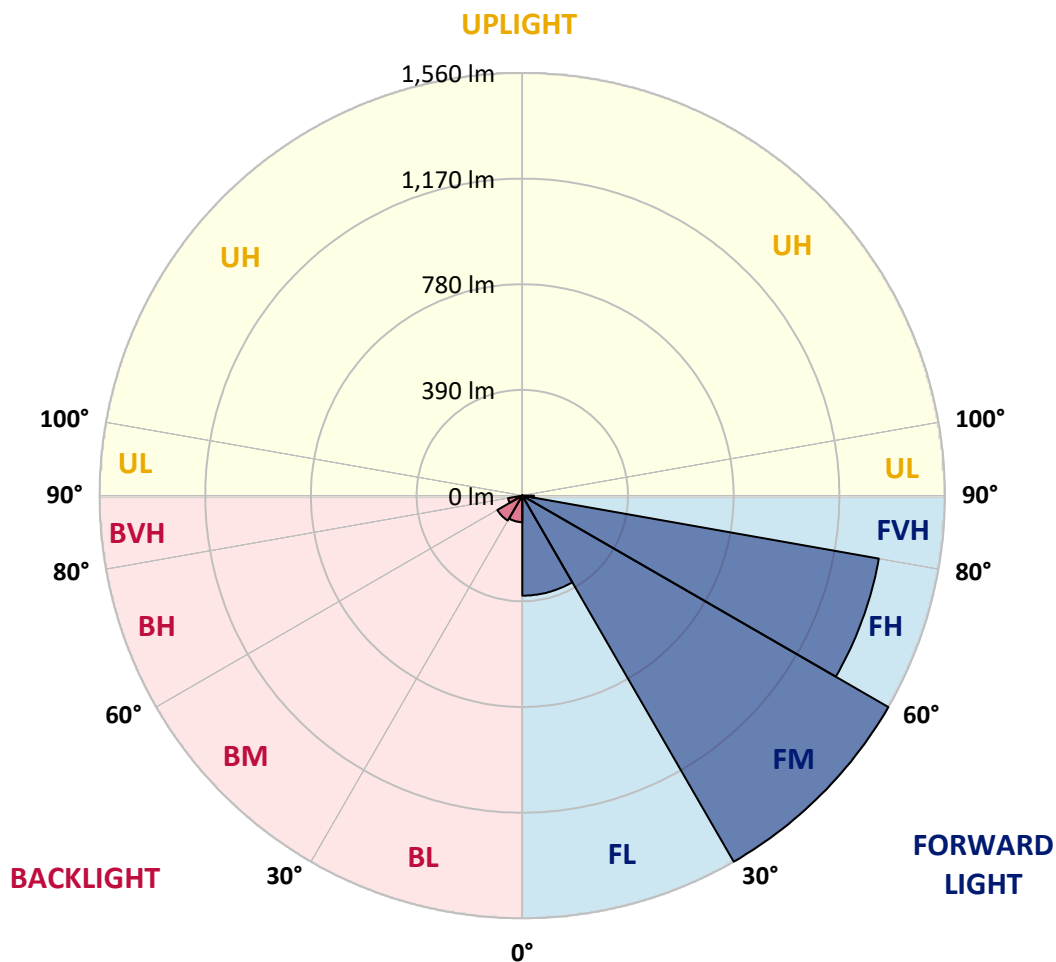
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.2	10.4			
FM (30°-60°)	1560.3	43.8			
FH (60°-80°)	1336.2	37.5			G1/1800
FVH (80°-90°)	43.0	1.2			G1/100
BL (0°-30°)	97.7	2.7	B0/110		
BM (30°-60°)	106.1	3.0	B0/220		
BH (60°-80°)	53.2	1.5	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3
2.5°	1097.1	1098.8	1092.6	1087.6	1074.7	1060.9	1042.5	1032.8	1016.1	987.3	955.3
5°	1122.8	1125.0	1124.0	1122.8	1117.8	1104.5	1081.1	1072.6	1048.0	1001.1	943.4
7.5°	1065.7	1073.5	1074.5	1083.8	1092.6	1093.8	1085.0	1078.5	1055.9	1000.8	922.2
10°	989.9	995.1	1002.7	1013.5	1034.7	1052.3	1060.9	1059.9	1046.8	993.4	897.4
12.5°	913.4	916.2	927.9	946.3	972.2	1002.3	1025.1	1029.7	1029.9	984.6	876.7
15°	847.6	846.4	855.5	876.7	913.1	950.8	991.8	998.9	1010.4	976.1	857.4
17.5°	791.4	797.6	799.0	822.4	856.0	904.8	957.0	969.6	992.5	968.7	841.4
20°	756.6	759.9	763.0	776.1	806.4	857.9	924.3	941.7	975.8	962.0	823.5
22.5°	746.3	748.5	745.9	749.9	771.4	817.1	888.8	912.0	959.8	955.8	809.0
25°	754.2	756.3	750.2	745.4	752.8	784.0	854.5	882.6	947.0	954.6	798.0
27.5°	773.3	777.3	768.7	760.2	755.9	766.1	827.6	860.2	938.2	960.3	793.0
30°	803.1	805.4	799.0	788.5	778.7	768.5	813.5	844.8	935.8	973.7	792.6
32.5°	835.5	840.5	836.9	830.0	817.3	793.0	817.6	845.2	941.5	993.0	798.5
35°	875.5	881.2	884.5	883.1	866.9	836.7	843.3	866.7	956.8	1028.5	814.7
37.5°	914.8	919.8	938.6	945.1	930.8	902.2	893.4	908.9	990.4	1074.9	844.0
40°	959.8	966.5	993.0	1017.5	1010.6	980.6	964.4	977.2	1041.8	1145.0	899.6
42.5°	1003.0	1014.9	1055.2	1098.5	1105.0	1071.4	1060.6	1064.9	1118.1	1245.8	977.0
45°	1064.2	1075.4	1127.4	1186.2	1216.5	1190.3	1179.3	1178.6	1222.7	1387.6	1102.6
47.5°	1152.6	1162.6	1223.9	1282.0	1335.9	1339.5	1318.7	1325.9	1354.2	1553.4	1256.5
50°	1261.1	1284.6	1324.9	1385.4	1457.4	1515.6	1522.0	1512.5	1536.8	1745.5	1441.4
52.5°	1418.6	1427.6	1464.6	1514.4	1598.7	1697.4	1773.9	1760.8	1753.1	1928.5	1628.3
55°	1536.0	1548.2	1605.6	1674.0	1797.7	1927.8	2093.7	2098.2	2001.9	2104.4	1811.0
57.5°	1500.5	1519.1	1606.1	1743.6	2015.5	2253.3	2376.7	2379.8	2232.1	2275.2	2017.4
60°	1318.2	1327.1	1451.7	1635.2	2034.1	2606.0	2778.3	2753.3	2466.3	2466.3	2199.7
62.5°	934.8	948.6	1049.7	1319.7	1837.0	2728.5	3259.2	3207.4	2789.0	2649.1	2308.4
65°	597.4	584.1	651.0	833.1	1368.5	2547.6	3677.8	3680.9	3092.6	2722.3	2249.0
67°	432.7	427.5	446.8	569.5	927.9	2141.6	3686.7	3849.9	3267.0	2676.0	2059.3
67.5°	395.8	399.9	413.9	513.8	843.1	1948.8	3646.6	3839.9	3306.3	2648.2	1990.7
70°	300.0	293.1	308.4	363.4	505.4	1229.4	3136.9	3521.8	3257.5	2371.5	1590.6
72.5°	220.7	219.9	241.2	297.2	389.1	654.8	2354.8	2823.8	2661.3	1805.8	1001.6
75°	148.9	155.6	189.4	248.3	352.7	424.6	1605.4	2048.6	1847.5	1025.4	409.4
77.5°	84.8	85.3	122.0	199.5	316.7	341.7	951.3	1305.1	978.0	341.0	121.5
80°	36.7	40.3	60.5	144.9	262.6	302.6	545.5	717.3	395.6	72.2	39.3
82.5°	13.6	16.0	26.7	89.1	191.6	249.3	329.6	342.4	134.2	25.5	24.5
85°	0.0	0.5	9.8	41.7	99.8	111.3	220.2	203.0	59.3	12.2	16.0
87.5°	0.0	0.0	0.0	4.3	13.1	41.5	68.4	76.3	14.3	4.3	3.8
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°	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3	945.3
2.5°	938.2	922.7	883.8	845.0	816.2	792.1	755.9	736.1	725.6	710.1	711.1
5°	914.6	883.1	814.7	744.0	686.8	631.0	564.3	537.4	514.7	501.8	493.3
7.5°	879.5	833.1	731.8	637.4	549.5	452.0	378.9	330.0	297.2	285.0	273.3
10°	841.2	779.5	647.7	516.9	394.9	294.3	232.3	187.5	171.6	156.8	158.2
12.5°	805.7	730.6	570.5	408.0	276.7	187.1	145.8	127.5	122.2	120.6	120.6
15°	776.6	683.9	487.6	306.7	189.7	134.4	116.8	111.8	109.9	109.4	109.4
17.5°	745.6	639.6	412.7	226.6	138.0	112.5	106.5	103.2	102.5	102.0	102.0
20°	718.0	595.0	341.7	168.7	111.5	101.3	97.5	95.3	94.6	94.1	94.4
22.5°	691.8	555.5	275.0	127.5	98.2	92.2	88.4	86.3	84.8	83.6	83.9
25°	668.4	517.3	221.1	104.4	88.4	83.2	79.4	76.3	73.2	71.7	71.5
27.5°	652.0	484.0	172.3	89.4	79.6	73.9	69.1	65.3	61.2	59.1	58.6
30°	638.4	450.1	136.3	78.9	70.8	65.3	59.3	53.9	49.6	47.4	46.5
32.5°	629.6	418.0	107.5	70.3	63.4	56.7	50.0	44.6	39.8	37.7	37.2
35°	628.1	391.0	87.9	63.1	56.7	49.6	42.7	36.7	32.6	30.5	30.0
37.5°	638.4	370.3	73.6	57.4	51.2	43.4	35.7	30.3	26.7	25.0	24.8
40°	665.8	357.2	63.9	52.7	46.2	37.7	30.5	25.7	22.2	20.5	20.5
42.5°	718.0	357.7	57.4	48.1	41.2	32.2	26.0	21.4	18.3	16.9	16.4
45°	799.5	373.9	51.9	43.6	36.5	27.9	22.2	17.6	14.5	13.3	13.3
47.5°	908.6	406.1	47.2	39.1	32.2	23.8	18.8	14.3	11.7	10.5	10.5
50°	1051.4	457.8	43.1	35.3	28.6	20.5	15.3	11.7	9.1	8.1	7.9
52.5°	1200.5	521.6	38.4	31.9	24.5	17.4	12.4	9.1	6.9	6.2	6.0
55°	1365.2	584.1	33.8	28.6	20.0	14.5	9.8	7.1	5.0	4.3	4.3
57.5°	1531.3	645.3	28.4	23.8	15.7	10.7	7.6	5.2	3.3	2.6	2.6
60°	1671.9	665.1	24.1	19.3	11.9	7.6	5.5	3.3	1.9	1.2	1.2
62.5°	1691.2	598.4	20.3	14.8	8.6	5.2	2.9	1.9	0.7	0.5	0.5
65°	1586.3	486.1	16.9	11.2	5.7	2.6	1.2	0.7	0.2	0.0	0.0
67°	1421.4	394.1	13.8	8.3	4.1	1.7	0.7	0.2	0.0	0.0	0.0
67.5°	1379.2	375.8	13.3	7.9	3.6	1.4	0.5	0.2	0.0	0.0	0.0
70°	1082.3	281.4	9.5	4.8	2.1	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	672.7	159.2	6.9	2.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0
75°	254.3	55.8	4.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	79.1	21.2	2.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.7	8.1	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.4	3.3	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.5	0.2	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)