

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: P646795

Luminaire Tested: **GALN-SA2C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8275.5 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

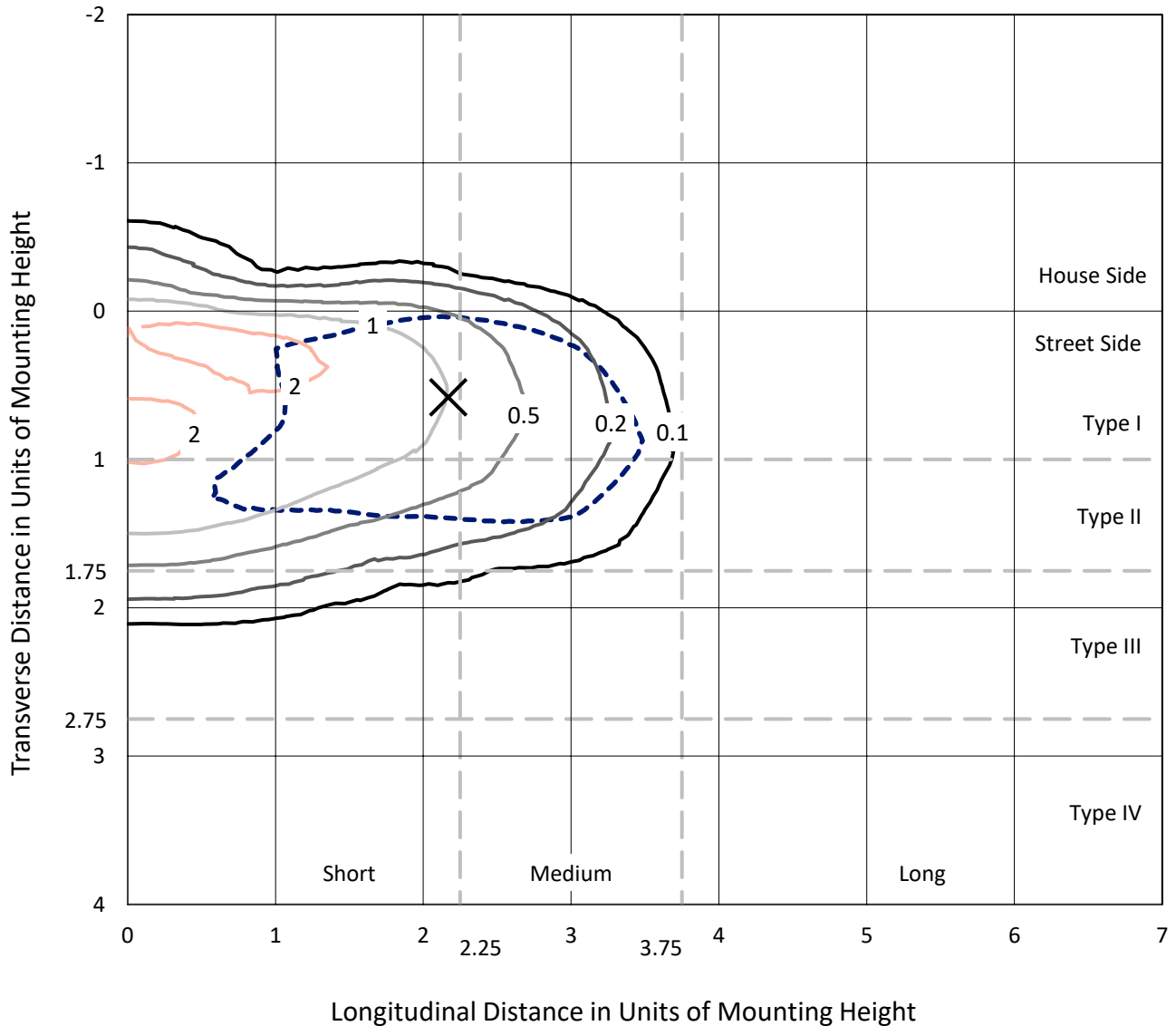
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

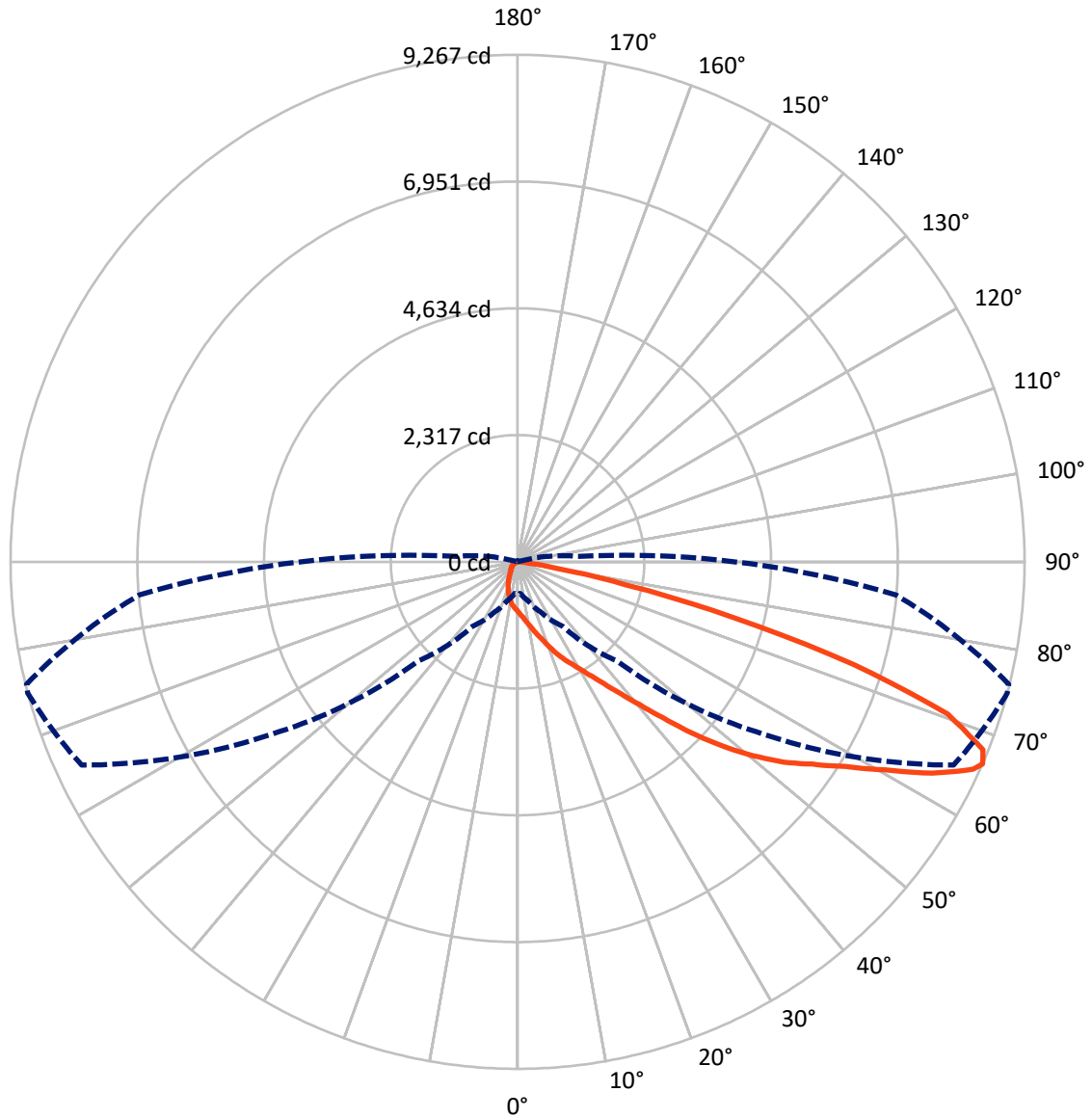
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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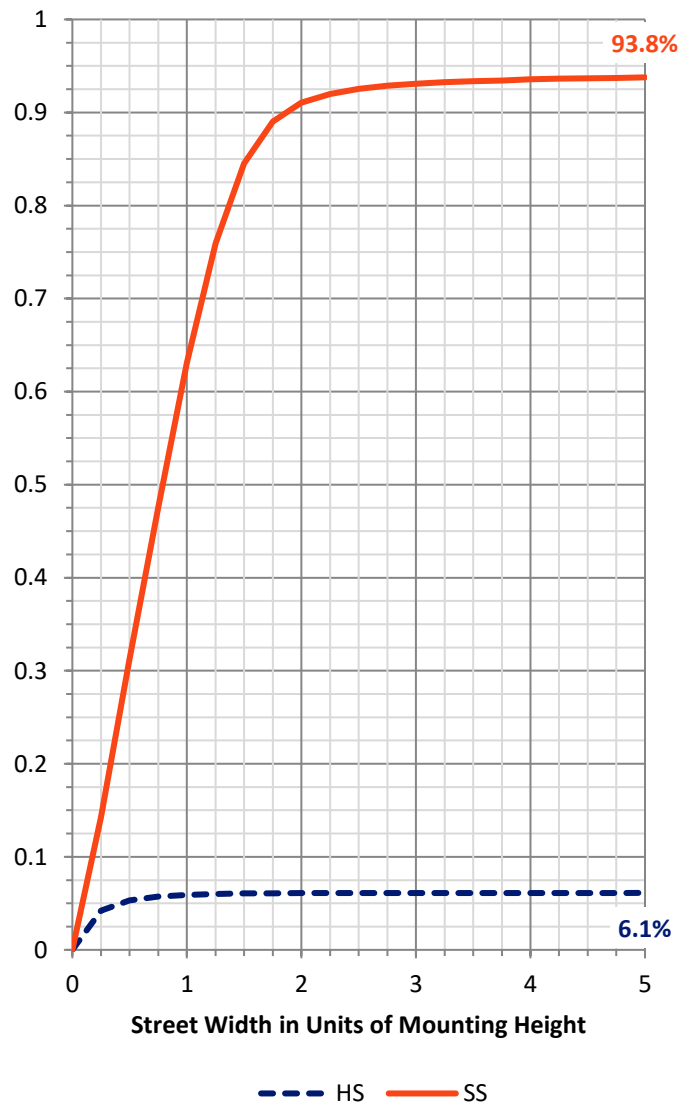
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	510.9	0.0	510.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7764.6	0.0	7764.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	8275.5	0.0	8275.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	1.1
10°-20°	256.9	3.1
20°-30°	443.6	5.4
30°-40°	800.2	9.7
40°-50°	1445.5	17.5
50°-60°	2253.6	27.2
60°-70°	2140.8	25.9
70°-80°	802.3	9.7
80°-90°	45.3	0.5
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°	8275.5	100.0
0°-180°	8275.5	100.0

Coefficient of Utilization

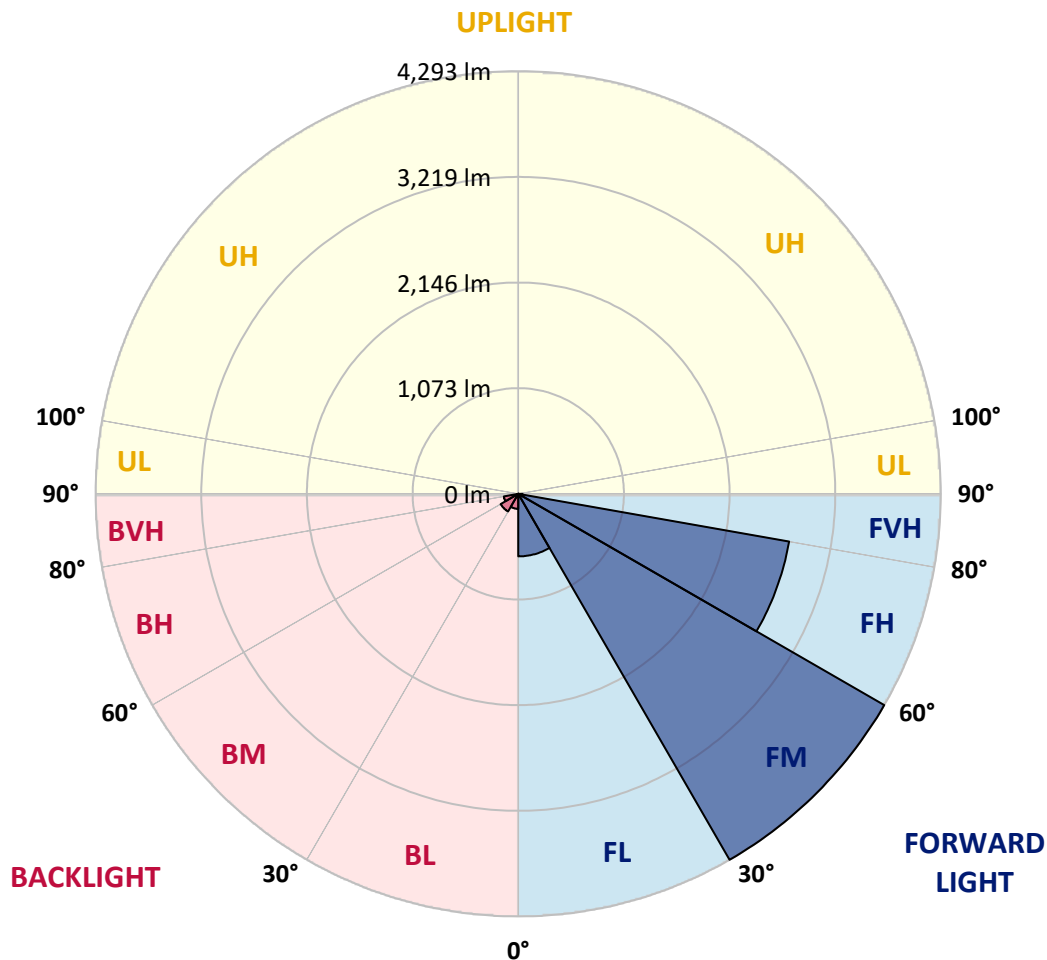


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.2	7.7			
FM (30°-60°)	4292.5	51.9			
FH (60°-80°)	2794.0	33.8			G2/5000
FVH (80°-90°)	42.9	0.5			G1/100
BL (0°-30°)	152.6	1.8	B1/500		
BM (30°-60°)	206.8	2.5	B0/220		
BH (60°-80°)	149.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0
2.5°	1081.2	1067.8	1072.1	1066.0	1051.9	1031.1	1012.7	986.4	960.1	955.8	926.4
5°	1223.8	1220.1	1215.2	1197.5	1187.7	1155.9	1118.0	1072.7	1018.2	1008.4	955.2
7.5°	1321.1	1319.3	1321.7	1312.5	1304.0	1275.2	1234.8	1173.0	1088.6	1083.0	994.3
10°	1352.9	1357.8	1367.0	1381.7	1395.1	1386.0	1355.4	1278.2	1179.7	1163.9	1039.0
12.5°	1334.5	1340.1	1362.1	1401.3	1444.7	1469.8	1457.6	1401.3	1276.4	1263.6	1089.2
15°	1287.5	1294.2	1325.4	1386.0	1463.7	1534.7	1565.3	1524.9	1389.0	1368.2	1149.8
17.5°	1217.7	1227.5	1272.1	1352.3	1458.8	1581.2	1667.5	1654.0	1509.0	1489.3	1215.8
20°	1165.1	1172.4	1210.4	1302.1	1438.0	1606.9	1764.7	1802.7	1657.1	1623.4	1293.6
22.5°	1199.9	1202.4	1215.2	1270.3	1400.6	1613.6	1850.4	1957.5	1814.3	1784.3	1374.3
25°	1370.6	1346.2	1333.4	1321.1	1392.7	1607.5	1928.1	2119.0	1971.0	1939.1	1454.5
27.5°	1639.9	1628.9	1564.0	1477.1	1460.6	1615.4	1979.5	2272.0	2118.4	2084.2	1532.8
30°	1933.0	1914.0	1874.3	1747.0	1619.1	1671.7	2016.9	2420.7	2292.8	2247.5	1604.4
32.5°	2202.3	2214.5	2155.1	2024.2	1876.1	1791.7	2065.2	2582.9	2492.9	2436.6	1687.7
35°	2516.2	2540.6	2449.5	2324.0	2150.8	2008.3	2159.4	2765.8	2746.8	2675.9	1816.2
37.5°	2834.9	2849.7	2794.0	2617.7	2461.7	2283.6	2336.9	2991.6	3059.6	2999.0	1969.7
40°	3103.0	3123.2	3082.2	2925.5	2759.1	2602.5	2594.5	3237.6	3431.6	3369.2	2198.6
42.5°	3307.9	3323.3	3324.5	3213.7	3063.8	2992.9	2923.1	3551.5	3897.9	3825.7	2464.2
45°	3566.8	3588.8	3576.0	3500.7	3388.7	3375.9	3339.8	3930.9	4455.9	4364.8	2808.6
47.5°	3967.0	3981.7	3949.8	3861.1	3747.3	3767.5	3746.1	4356.1	5025.0	4946.7	3165.4
50°	4244.8	4269.3	4314.6	4350.0	4267.4	4192.8	4129.2	4753.3	5565.3	5494.9	3530.1
52.5°	4241.7	4282.1	4425.3	4604.0	4784.5	4761.9	4578.9	5192.0	6081.2	5994.3	3872.8
55°	3956.0	4034.3	4244.8	4561.8	5061.7	5310.8	5227.5	5699.9	6526.6	6467.9	4269.9
57.5°	3366.1	3413.8	3706.3	4149.4	4906.9	5568.9	5978.9	6388.3	7060.8	7033.3	4886.7
60°	2264.0	2285.5	2661.8	3209.4	4177.5	5311.3	6529.7	7221.1	7718.6	7705.1	5606.9
62.5°	1297.3	1306.4	1579.3	2041.4	2972.7	4501.2	6576.2	8248.5	8507.4	8514.7	6440.3
65°	698.2	703.1	923.4	1198.1	1808.8	3208.3	5913.5	8811.5	9145.0	9159.1	6956.8
66°	602.8	579.5	734.9	1021.3	1439.2	2553.5	5494.3	8791.3	9267.4	9252.0	6938.4
67.5°	458.3	479.1	586.8	785.1	1066.5	1815.5	4536.1	8400.3	9174.3	9126.6	6656.4
70°	328.0	336.5	418.0	559.9	726.3	996.2	2898.6	6977.0	8338.5	8274.2	5799.1
72.5°	211.7	220.9	296.1	405.0	525.0	544.0	1622.8	5040.9	6428.7	6419.5	4367.2
75°	151.1	159.7	195.8	290.0	394.7	336.5	781.4	3397.3	4086.9	4059.4	2701.6
77.5°	109.5	113.8	130.9	189.7	282.1	241.1	362.2	1814.3	2034.6	2130.7	1193.8
80°	63.0	66.7	91.1	115.6	190.9	164.6	173.2	728.2	750.8	714.7	373.3
82.5°	31.2	35.5	54.5	78.9	119.3	110.7	79.6	219.1	231.3	225.2	94.2
85°	7.4	9.2	30.6	52.0	58.1	49.6	38.5	64.3	79.6	77.7	36.1
87.5°	0.6	1.3	11.0	9.2	9.8	16.5	13.5	16.5	25.7	23.9	12.8
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°	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0	905.0
2.5°	913.0	901.3	867.7	834.7	807.1	778.4	752.1	736.7	730.6	723.9	726.9
5°	925.8	897.6	829.7	771.0	713.5	664.5	625.4	600.2	588.0	586.2	583.2
7.5°	943.0	894.6	789.3	697.6	622.3	567.8	523.2	487.1	476.1	466.3	458.3
10°	963.7	889.1	739.2	620.4	540.3	471.8	413.0	370.2	348.2	342.1	346.3
12.5°	985.8	878.7	686.5	549.5	457.1	369.6	315.2	293.7	287.6	285.2	285.8
15°	1007.8	865.8	631.5	481.0	364.1	295.0	269.8	264.3	261.9	260.7	259.5
17.5°	1028.0	845.0	569.7	414.3	295.0	252.1	243.0	238.0	233.1	231.3	228.2
20°	1051.9	821.2	514.0	339.6	249.6	228.2	217.2	208.0	200.7	195.8	195.2
22.5°	1074.5	790.6	455.9	281.5	227.6	205.0	187.2	177.4	168.9	162.8	164.6
25°	1086.7	753.2	403.9	245.4	207.4	181.7	162.2	149.9	140.7	137.7	137.1
27.5°	1086.7	707.4	353.1	224.6	189.1	160.9	140.7	129.1	123.0	118.7	119.3
30°	1078.2	656.5	305.9	208.7	173.2	142.6	123.6	113.2	108.3	105.2	104.6
32.5°	1071.5	608.2	265.6	193.4	156.7	126.7	110.2	102.2	97.3	94.2	94.2
35°	1081.9	566.7	234.4	178.1	141.3	114.4	99.8	92.4	87.5	85.0	84.4
37.5°	1109.4	528.7	210.5	161.5	127.3	104.1	92.4	83.9	78.9	75.9	74.6
40°	1177.3	507.3	192.8	146.3	113.8	95.4	83.9	75.9	69.8	66.7	66.1
42.5°	1286.2	507.9	175.6	132.2	103.4	88.1	76.5	67.3	60.6	57.6	56.9
45°	1450.2	531.1	162.2	118.7	94.2	80.2	68.5	58.7	52.6	49.6	49.6
47.5°	1646.6	576.4	150.5	107.1	85.7	72.8	60.6	50.8	44.6	42.2	42.2
50°	1859.5	635.2	138.9	94.8	78.3	64.8	52.0	44.1	39.2	37.3	37.3
52.5°	2076.8	706.1	127.3	85.0	70.4	56.3	44.6	39.2	34.8	33.7	33.0
55°	2362.0	796.7	115.0	74.6	61.8	48.3	39.8	34.3	29.4	27.6	26.9
57.5°	2800.7	933.2	101.6	65.5	50.8	40.4	34.3	28.7	23.3	20.2	19.6
60°	3330.0	1099.6	87.5	57.6	41.0	33.0	27.6	22.0	17.1	13.5	12.8
62.5°	3825.7	1205.4	74.1	48.3	32.4	25.1	19.6	16.5	12.2	8.5	8.0
65°	4044.7	1170.0	61.2	39.2	25.7	17.8	12.8	11.6	7.4	3.7	3.1
66°	3971.9	1117.3	56.3	35.5	23.3	15.3	11.0	9.8	5.5	1.8	1.8
67.5°	3757.1	993.2	48.9	30.6	20.2	12.2	8.5	7.4	3.1	0.6	0.0
70°	3219.2	803.4	38.5	22.6	14.7	8.5	4.9	3.7	1.8	0.0	0.0
72.5°	2472.7	598.4	30.6	17.1	10.4	4.9	2.4	1.3	1.8	0.0	0.0
75°	1515.1	342.1	23.9	12.8	6.7	3.1	1.8	0.0	1.8	0.6	0.0
77.5°	672.5	153.6	15.9	8.5	4.9	2.4	1.3	0.0	1.3	0.6	0.0
80°	170.1	50.2	9.2	6.1	3.7	1.8	0.6	0.0	1.3	1.3	0.6
82.5°	46.5	18.3	6.7	4.9	3.1	1.8	0.6	0.0	1.3	1.3	1.3
85°	18.3	8.5	6.1	4.9	3.7	1.8	0.6	0.0	1.3	1.3	1.3
87.5°	8.5	6.1	6.1	5.5	4.3	1.8	0.6	0.0	1.3	0.6	1.3
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)