

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: P648280

Luminaire Tested: **GALN-SA2B-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648280
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-SA2B-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA 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: 6697.8 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

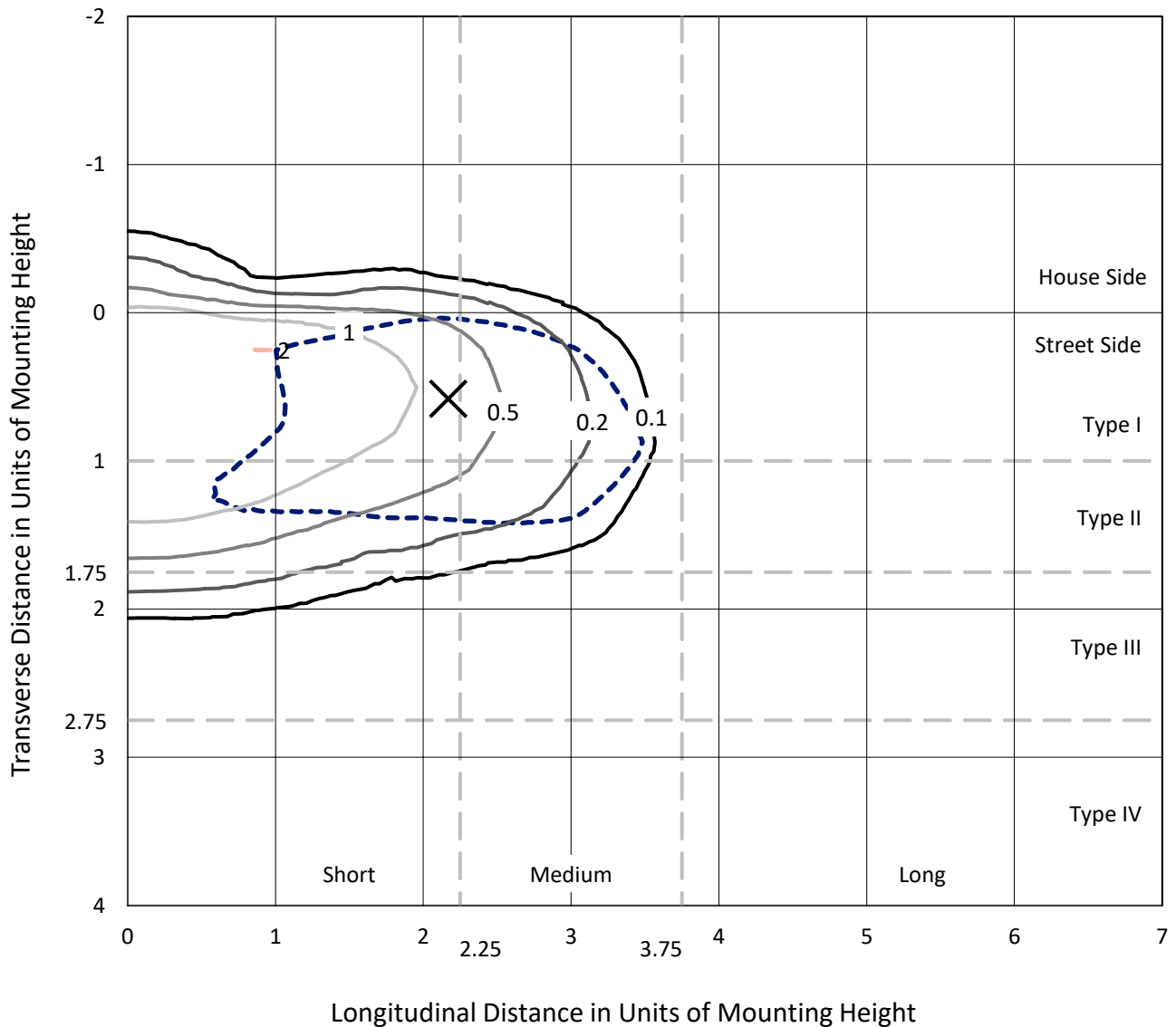
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2B-835-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

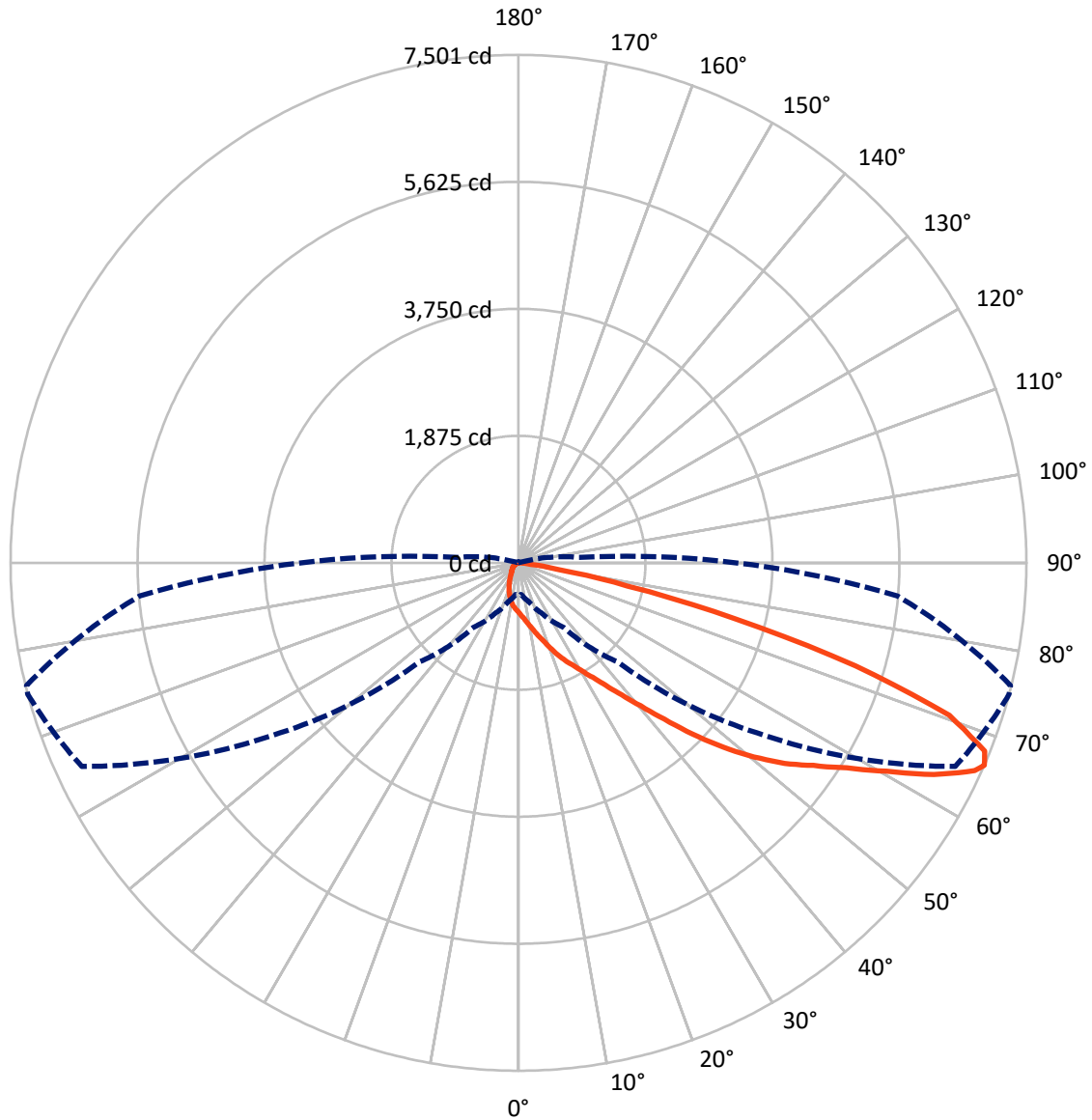
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

REPORT NUMBER: P648280
CATALOG NUMBER: GALN-SA2B-835-U-T2-HSS

Luminous Intensity Polar Plot



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

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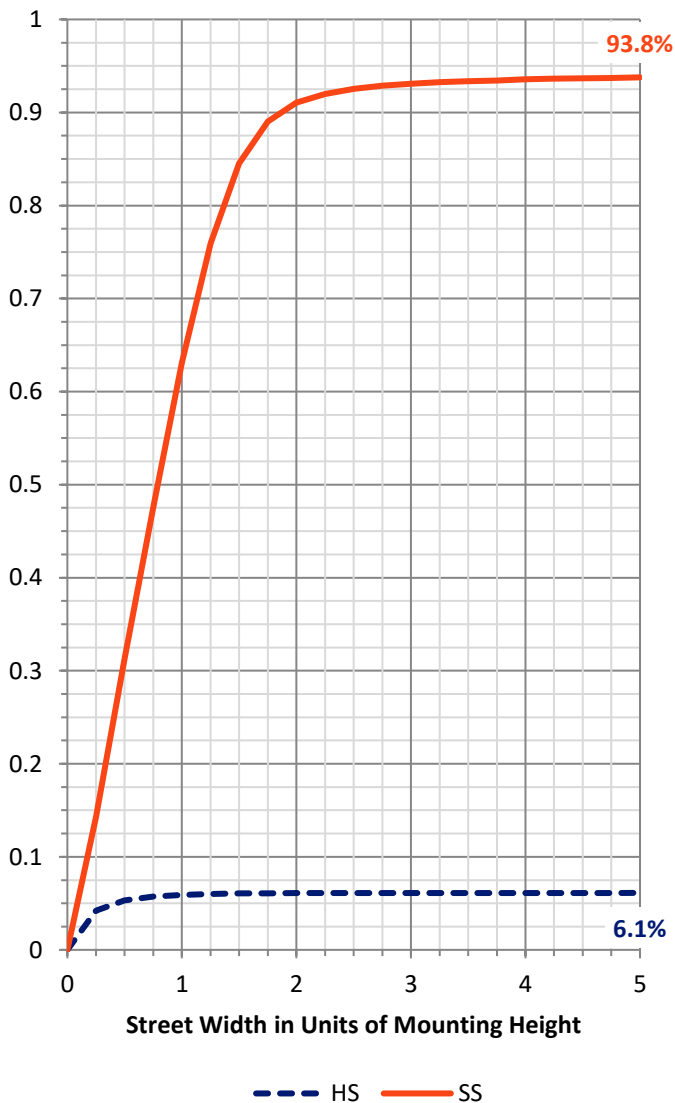
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.5	0.0	413.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6284.3	0.0	6284.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	6697.8	0.0	6697.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.1
10°-20°	207.9	3.1
20°-30°	359.0	5.4
30°-40°	647.6	9.7
40°-50°	1169.9	17.5
50°-60°	1823.9	27.2
60°-70°	1732.7	25.9
70°-80°	649.4	9.7
80°-90°	36.6	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°	6697.8	100.0
0°-180°	6697.8	100.0

Coefficient of Utilization



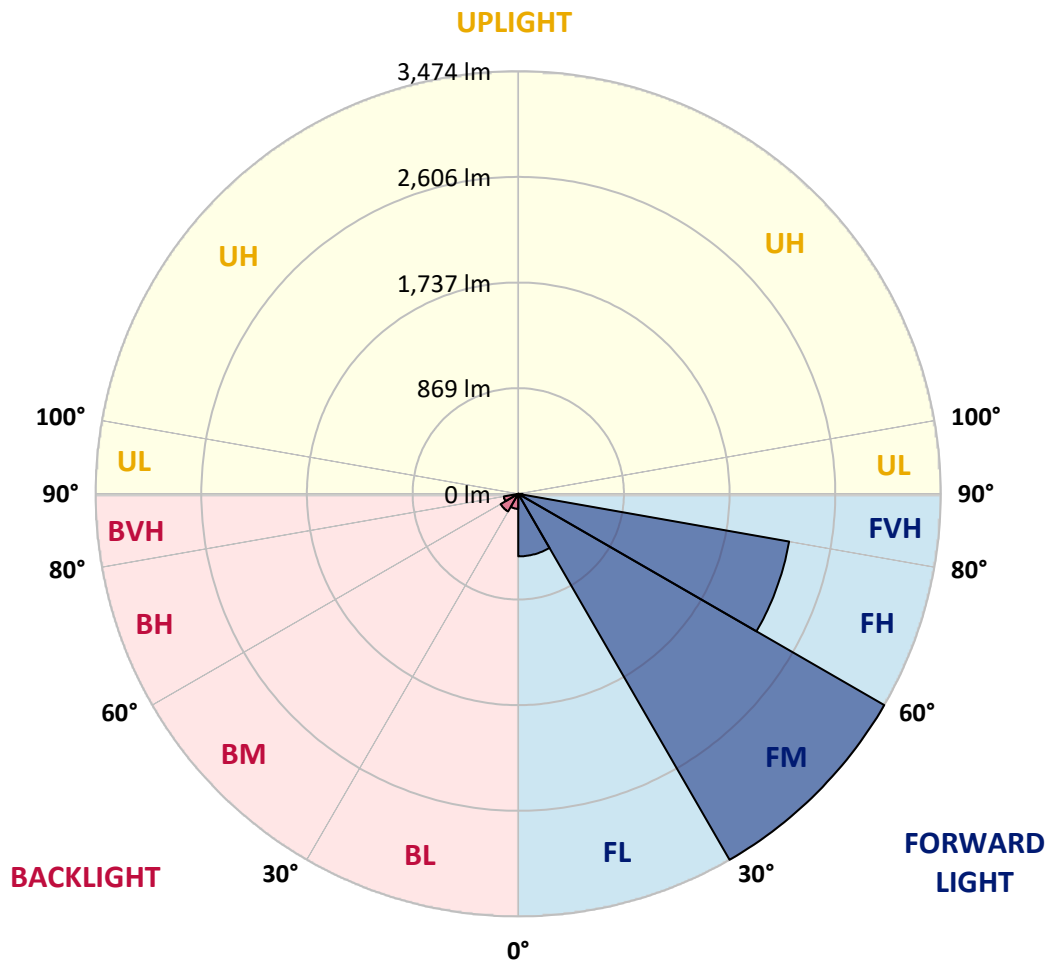
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 CATALOG NUMBER: GALN-SA2B-835-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.1	7.7			
FM (30°-60°)	3474.1	51.9			
FH (60°-80°)	2261.3	33.8			G2/5000
FVH (80°-90°)	34.7	0.5			G1/100
BL (0°-30°)	123.5	1.8	B1/500		
BM (30°-60°)	167.4	2.5	B0/220		
BH (60°-80°)	120.8	1.8	B1/500		G1/500
BVH (80°-90°)	1.9	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°	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5
2.5°	875.1	864.2	867.6	862.7	851.4	834.5	819.6	798.3	777.0	773.6	749.8
5°	990.5	987.5	983.5	969.2	961.3	935.5	904.8	868.2	824.1	816.2	773.1
7.5°	1069.3	1067.8	1069.7	1062.3	1055.4	1032.1	999.4	949.4	881.0	876.6	804.8
10°	1095.0	1098.9	1106.4	1118.3	1129.2	1121.7	1097.0	1034.6	954.9	941.9	840.9
12.5°	1080.1	1084.6	1102.4	1134.1	1169.3	1189.6	1179.7	1134.1	1033.1	1022.7	881.5
15°	1042.0	1047.4	1072.7	1121.7	1184.6	1242.1	1266.8	1234.2	1124.2	1107.4	930.6
17.5°	985.6	993.5	1029.6	1094.5	1180.7	1279.7	1349.6	1338.6	1221.2	1205.4	984.1
20°	943.0	948.9	979.6	1053.9	1163.9	1300.5	1428.3	1459.0	1341.1	1313.9	1046.9
22.5°	971.2	973.2	983.5	1028.2	1133.6	1306.0	1497.6	1584.3	1468.4	1444.2	1112.3
25°	1109.4	1089.5	1079.1	1069.3	1127.2	1301.0	1560.5	1715.0	1595.2	1569.4	1177.2
27.5°	1327.3	1318.3	1265.9	1195.6	1182.2	1307.5	1602.1	1838.9	1714.5	1686.8	1240.6
30°	1564.5	1549.2	1516.9	1413.9	1310.4	1353.0	1632.3	1959.2	1855.7	1819.1	1298.5
32.5°	1782.4	1792.3	1744.3	1638.3	1518.4	1450.1	1671.5	2090.5	2017.6	1972.1	1365.9
35°	2036.4	2056.2	1982.5	1880.9	1740.8	1625.4	1747.7	2238.5	2223.2	2165.7	1469.9
37.5°	2294.5	2306.3	2261.3	2118.6	1992.3	1848.3	1891.3	2421.3	2476.2	2427.2	1594.2
40°	2511.4	2527.8	2494.6	2367.8	2233.0	2106.3	2099.8	2620.3	2777.3	2726.8	1779.4
42.5°	2677.3	2689.7	2690.7	2601.0	2479.7	2422.2	2365.8	2874.4	3154.7	3096.3	1994.4
45°	2886.8	2904.6	2894.2	2833.3	2742.7	2732.3	2703.1	3181.5	3606.4	3532.6	2273.2
47.5°	3210.7	3222.6	3196.8	3125.0	3032.9	3049.2	3031.9	3525.7	4067.0	4003.6	2561.9
50°	3435.5	3455.3	3491.9	3520.7	3453.8	3393.4	3341.9	3847.0	4504.3	4447.3	2857.1
52.5°	3433.1	3465.7	3581.6	3726.2	3872.3	3854.0	3705.9	4202.1	4921.8	4851.4	3134.4
55°	3201.8	3265.2	3435.5	3692.1	4096.7	4298.2	4230.9	4613.2	5282.3	5234.7	3455.8
57.5°	2724.4	2763.0	2999.7	3358.3	3971.4	4507.3	4839.0	5170.4	5714.6	5692.3	3955.0
60°	1832.4	1849.8	2154.3	2597.6	3381.1	4298.7	5284.8	5844.4	6247.0	6236.1	4538.0
62.5°	1049.9	1057.4	1278.2	1652.1	2405.9	3643.1	5322.4	6675.9	6885.4	6891.3	5212.4
65°	565.1	569.0	747.3	969.7	1464.0	2596.6	4786.1	7131.6	7401.5	7412.8	5630.5
66°	487.8	469.0	594.8	826.5	1164.8	2066.7	4446.8	7115.2	7500.5	7488.1	5615.6
67.5°	370.9	387.7	475.0	635.4	863.2	1469.4	3671.3	6798.7	7425.2	7386.6	5387.3
70°	265.4	272.4	338.3	453.1	587.9	806.3	2345.9	5646.8	6748.7	6696.7	4693.5
72.5°	171.3	178.8	239.7	327.8	424.9	440.3	1313.4	4079.8	5203.0	5195.6	3534.5
75°	122.3	129.3	158.5	234.7	319.5	272.4	632.4	2749.6	3307.8	3285.5	2186.5
77.5°	88.6	92.1	106.0	153.5	228.3	195.1	293.2	1468.4	1646.7	1724.5	966.2
80°	51.0	53.9	73.8	93.6	154.5	133.2	140.2	589.4	607.7	578.5	302.1
82.5°	25.3	28.7	44.1	63.9	96.5	89.7	64.4	177.3	187.2	182.3	76.3
85°	6.0	7.4	24.7	42.1	47.1	40.1	31.2	52.0	64.4	62.9	29.2
87.5°	0.5	1.0	8.9	7.4	7.9	13.4	10.9	13.4	20.8	19.3	10.4
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°	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5
2.5°	738.9	729.5	702.3	675.5	653.3	629.9	608.6	596.3	591.3	585.8	588.3
5°	749.3	726.5	671.6	624.0	577.5	537.8	506.1	485.9	475.9	474.4	472.0
7.5°	763.2	724.0	638.8	564.5	503.7	459.6	423.4	394.2	385.3	377.4	370.9
10°	780.0	719.6	598.3	502.2	437.3	381.9	334.3	299.7	281.8	276.9	280.3
12.5°	797.9	711.2	555.7	444.7	370.0	299.1	255.0	237.7	232.8	230.8	231.3
15°	815.7	700.8	511.1	389.2	294.6	238.7	218.4	213.9	212.0	210.9	210.0
17.5°	832.0	684.0	461.1	335.3	238.7	204.0	196.6	192.6	188.7	187.2	184.7
20°	851.4	664.6	416.0	274.8	202.1	184.7	175.8	168.3	162.5	158.5	158.0
22.5°	869.7	639.9	368.9	227.8	184.2	165.9	151.5	143.6	136.7	131.7	133.2
25°	879.5	609.6	326.8	198.6	167.9	147.1	131.2	121.4	113.9	111.4	111.0
27.5°	879.5	572.5	285.8	181.7	153.0	130.2	113.9	104.5	99.5	96.1	96.5
30°	872.7	531.4	247.6	168.9	140.2	115.4	100.1	91.6	87.7	85.2	84.7
32.5°	867.2	492.3	214.9	156.5	126.8	102.5	89.1	82.7	78.8	76.3	76.3
35°	875.6	458.6	189.6	144.2	114.4	92.6	80.7	74.8	70.8	68.8	68.4
37.5°	897.9	427.9	170.4	130.8	103.0	84.2	74.8	67.9	63.9	61.4	60.4
40°	952.8	410.5	156.0	118.4	92.1	77.3	67.9	61.4	56.5	53.9	53.5
42.5°	1041.0	411.1	142.1	107.0	83.7	71.3	61.9	54.5	49.0	46.6	46.0
45°	1173.7	429.9	131.2	96.1	76.3	64.9	55.4	47.5	42.6	40.1	40.1
47.5°	1332.7	466.5	121.8	86.7	69.3	59.0	49.0	41.1	36.2	34.1	34.1
50°	1505.1	514.0	112.4	76.7	63.4	52.5	42.1	35.6	31.7	30.2	30.2
52.5°	1680.9	571.5	103.0	68.8	56.9	45.6	36.2	31.7	28.3	27.2	26.8
55°	1911.6	644.8	93.1	60.4	50.0	39.2	32.2	27.7	23.8	22.3	21.8
57.5°	2266.7	755.3	82.2	53.0	41.1	32.7	27.7	23.3	18.8	16.4	15.8
60°	2695.2	890.0	70.8	46.6	33.2	26.8	22.3	17.9	13.9	10.9	10.4
62.5°	3096.3	975.6	59.9	39.2	26.2	20.3	15.8	13.4	9.9	7.0	6.4
65°	3273.6	946.9	49.5	31.7	20.8	14.3	10.4	9.4	6.0	3.0	2.5
66°	3214.6	904.3	45.6	28.7	18.8	12.4	8.9	7.9	4.5	1.5	1.5
67.5°	3040.8	803.7	39.6	24.7	16.4	9.9	7.0	6.0	2.5	0.5	0.0
70°	2605.5	650.3	31.2	18.3	11.9	7.0	4.0	3.0	1.5	0.0	0.0
72.5°	2001.3	484.4	24.7	13.9	8.5	4.0	2.0	1.0	1.5	0.0	0.0
75°	1226.3	276.9	19.3	10.4	5.5	2.5	1.5	0.0	1.5	0.5	0.0
77.5°	544.3	124.3	12.8	7.0	4.0	2.0	1.0	0.0	1.0	0.5	0.0
80°	137.7	40.6	7.4	4.9	3.0	1.5	0.5	0.0	1.0	1.0	0.5
82.5°	37.7	14.9	5.5	4.0	2.5	1.5	0.5	0.0	1.0	1.0	1.0
85°	14.9	7.0	4.9	4.0	3.0	1.5	0.5	0.0	1.0	1.0	1.0
87.5°	7.0	4.9	4.9	4.5	3.4	1.5	0.5	0.0	1.0	0.5	1.0
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)