

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: P648288

Luminaire Tested: **GALN-SA2B-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6578 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

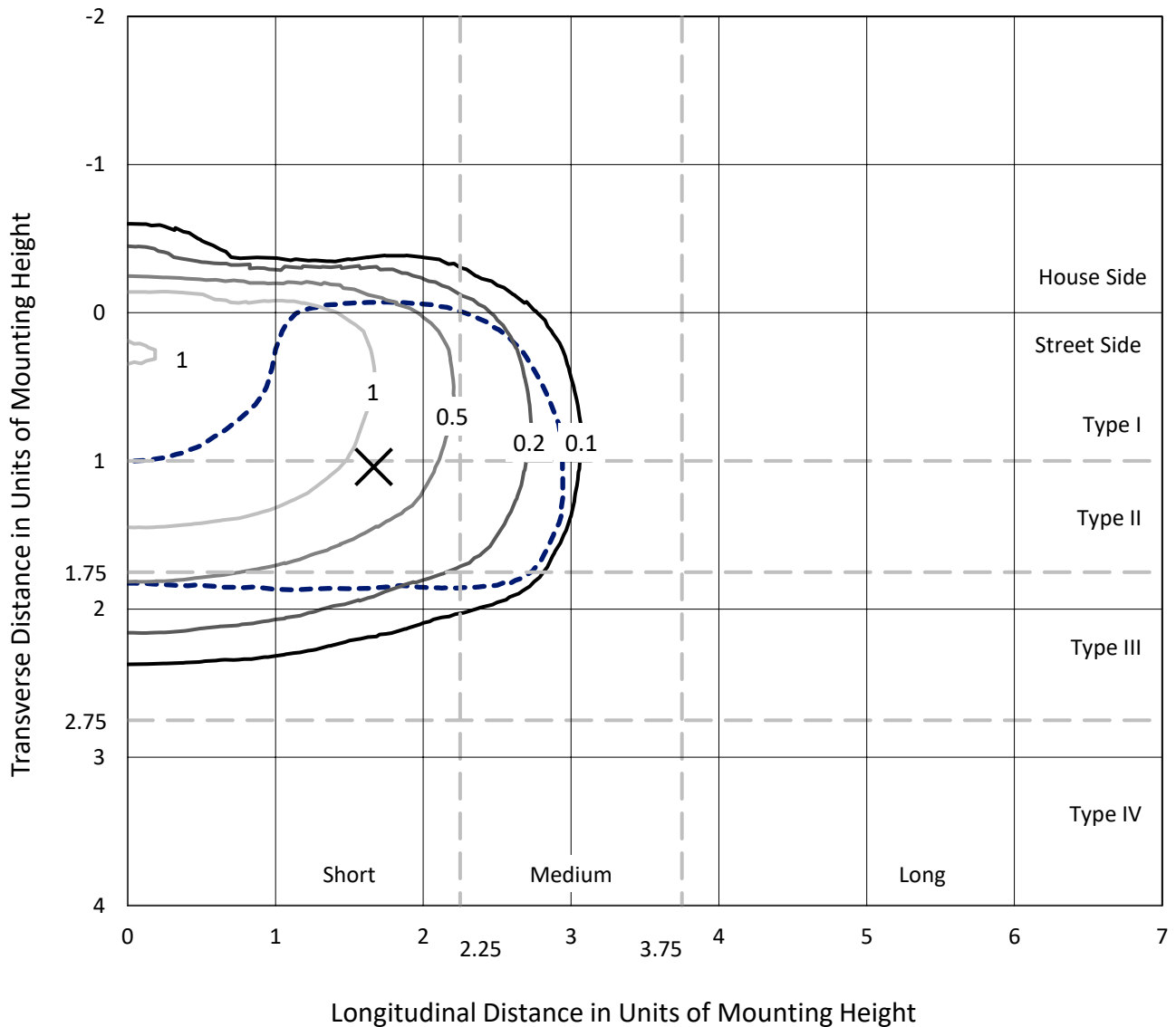
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648288
 CATALOG NUMBER: GALN-SA2B-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

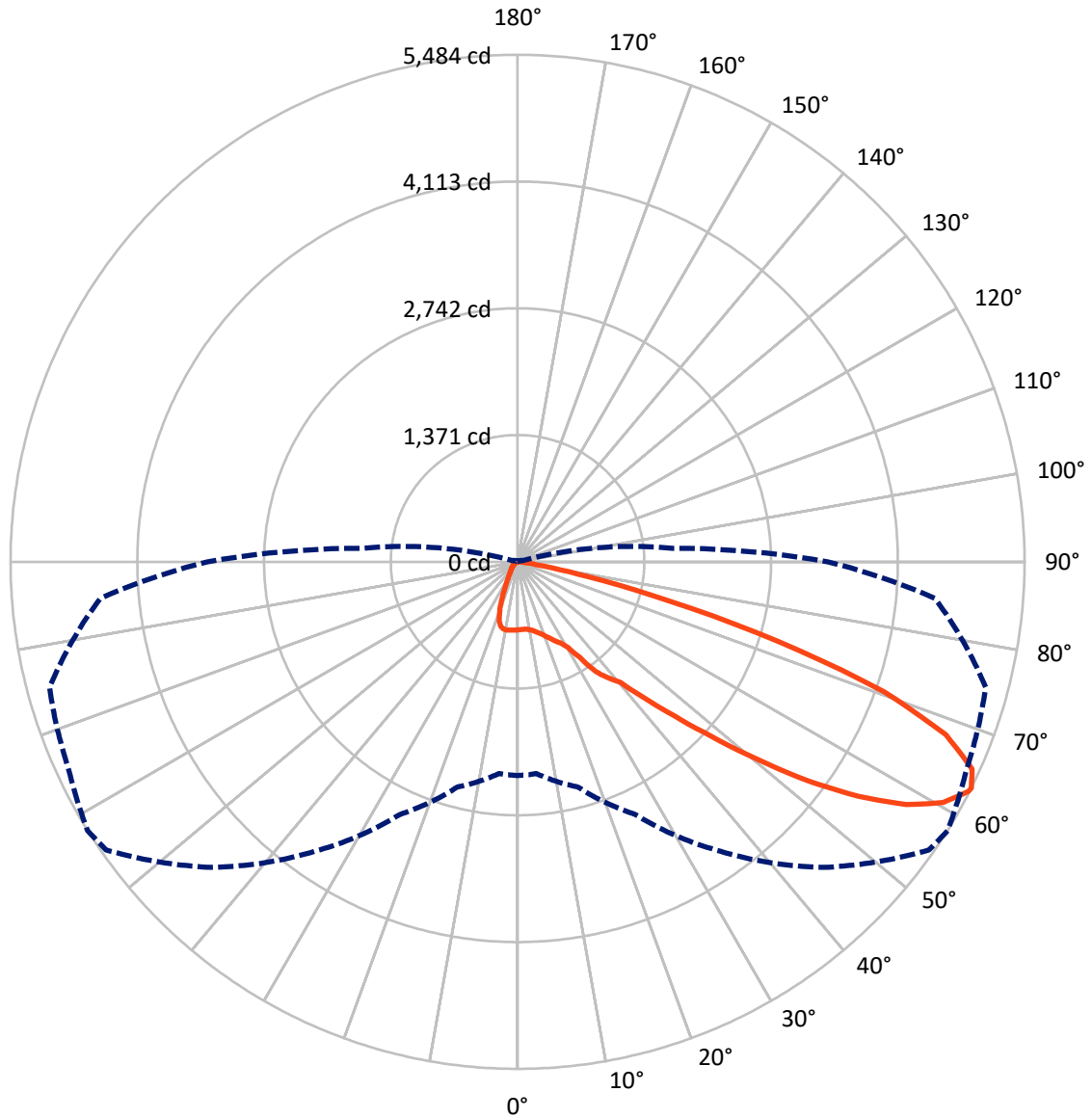
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P648288
CATALOG NUMBER: GALN-SA2B-835-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P648288
 CATALOG NUMBER: GALN-SA2B-835-U-T3-HSS

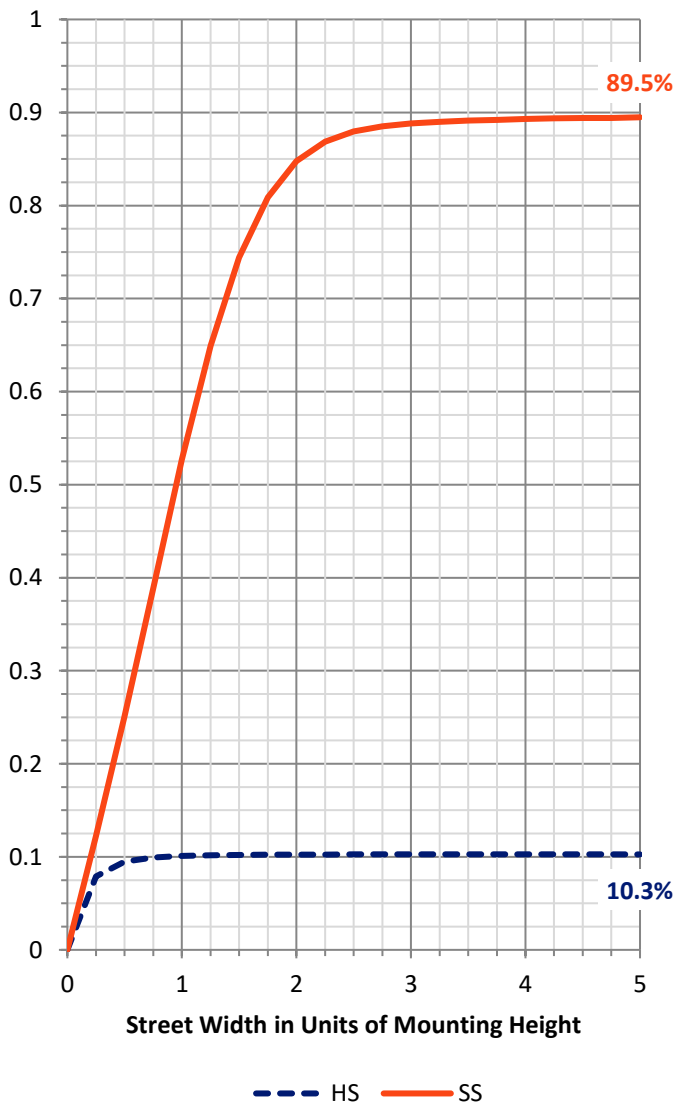
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	681.1	0.0	681.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5896.9	0.0	5896.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	6578.0	0.0	6578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.0
10°-20°	187.8	2.9
20°-30°	325.9	5.0
30°-40°	598.8	9.1
40°-50°	1127.3	17.1
50°-60°	1928.2	29.3
60°-70°	1846.2	28.1
70°-80°	470.8	7.2
80°-90°	24.1	0.4
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°	6578.0	100.0
0°-180°	6578.0	100.0

Coefficient of Utilization



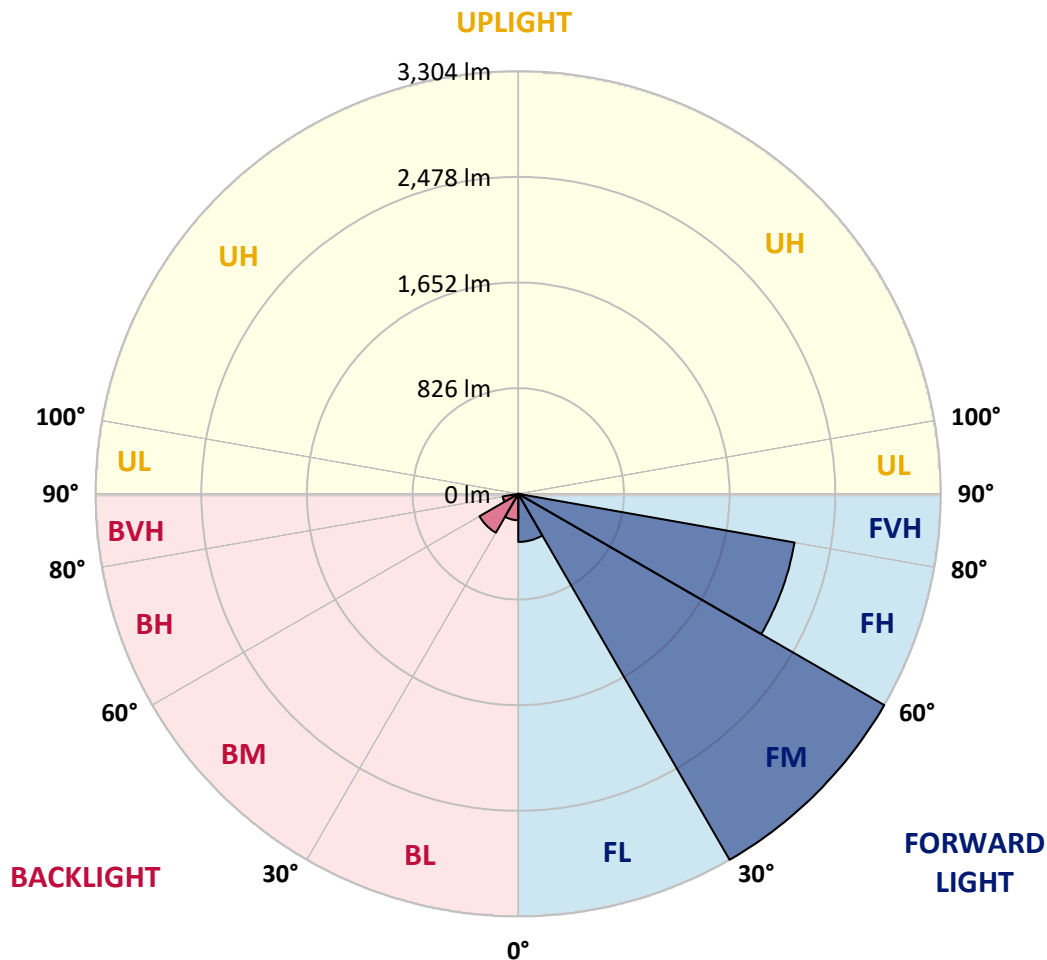
REPORT NUMBER: P648288
 CATALOG NUMBER: GALN-SA2B-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.0	5.7			
FM (30°-60°)	3304.0	50.2			
FH (60°-80°)	2193.7	33.3			G2/5000
FVH (80°-90°)	23.1	0.4			G1/100
BL (0°-30°)	206.6	3.1	B1/500		
BM (30°-60°)	350.3	5.3	B1/1000		
BH (60°-80°)	123.3	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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 III Short





REPORT NUMBER: P648288

CATALOG NUMBER: GALN-SA2B-835-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4
2.5°	718.1	720.6	723.0	724.0	727.5	731.0	733.4	733.0	737.0	738.9	738.9
5°	689.4	689.4	695.9	701.7	711.7	721.5	731.0	733.0	740.4	747.3	749.8
7.5°	665.1	666.6	671.6	682.5	695.9	713.2	731.9	736.4	749.3	764.7	771.1
10°	653.7	654.7	661.2	672.5	689.4	713.2	739.4	747.8	767.7	791.9	800.8
12.5°	651.2	652.7	659.2	672.0	691.4	720.1	755.8	764.7	793.4	824.6	838.0
15°	655.7	656.7	663.1	677.0	698.3	732.5	777.5	789.9	824.1	860.2	877.6
17.5°	671.6	670.6	675.0	686.4	710.2	747.8	803.7	818.6	858.8	908.3	919.6
20°	738.9	732.5	728.5	718.6	728.0	769.6	835.5	857.3	906.8	957.3	965.2
22.5°	884.0	869.7	841.4	802.8	773.1	799.4	873.6	898.9	962.8	1012.3	1012.3
25°	1068.7	1050.4	1022.2	938.0	865.2	848.4	916.7	948.4	1023.7	1073.7	1057.4
27.5°	1300.0	1285.7	1230.7	1132.6	1021.2	934.0	966.7	996.0	1077.6	1138.1	1103.9
30°	1488.2	1481.3	1436.2	1348.6	1225.7	1098.5	1059.8	1079.1	1149.4	1219.3	1184.1
32.5°	1647.2	1647.2	1601.2	1519.4	1404.5	1291.6	1217.8	1231.7	1299.0	1379.7	1314.3
35°	1822.0	1816.1	1778.9	1701.1	1572.4	1472.8	1442.7	1461.5	1522.4	1582.3	1421.4
37.5°	2005.7	2003.8	1965.2	1889.8	1784.8	1659.6	1588.8	1593.7	1624.9	1661.5	1546.7
40°	2205.3	2208.3	2157.8	2111.2	2012.2	1883.9	1748.2	1717.0	1746.2	1849.8	1778.0
42.5°	2441.1	2434.1	2412.3	2348.9	2269.2	2192.5	2029.5	2018.1	2043.9	2154.8	2077.1
45°	2715.0	2724.8	2687.2	2652.0	2598.5	2534.6	2398.5	2378.7	2406.9	2579.2	2468.8
47.5°	2989.3	2979.9	3004.1	2997.7	3026.5	2978.9	2858.6	2817.9	2885.8	3049.2	2886.8
50°	3198.3	3208.7	3259.2	3333.0	3456.3	3483.1	3367.7	3353.8	3384.0	3489.0	3260.7
52.5°	3334.0	3368.7	3447.9	3637.6	3860.0	4032.8	3945.1	3937.7	3925.3	3953.5	3618.2
55°	3422.6	3457.8	3561.3	3840.6	4223.4	4504.3	4508.7	4477.0	4395.3	4375.0	3952.6
57.5°	3368.2	3375.1	3522.7	3896.1	4425.0	4840.5	4986.1	4954.4	4803.4	4726.7	4247.7
60°	3027.5	3041.8	3247.3	3686.1	4337.4	4950.4	5302.6	5288.2	5122.9	5036.2	4477.5
62.5°	2423.7	2465.4	2676.8	3166.1	3929.8	4765.3	5430.9	5471.4	5342.7	5223.4	4549.9
63°	2312.8	2299.4	2522.7	3014.6	3821.8	4673.6	5432.8	5484.4	5352.6	5241.2	4530.0
65°	1712.0	1752.2	1897.3	2377.2	3180.5	4247.2	5310.5	5401.7	5315.9	5162.5	4310.6
67.5°	961.3	959.3	1119.8	1555.6	2226.1	3331.5	4801.9	4994.5	4976.7	4632.5	3573.2
70°	470.5	477.9	543.8	806.3	1291.1	2298.4	3990.2	4198.2	4204.6	3638.6	2470.8
72.5°	213.0	216.4	263.5	392.8	663.6	1223.8	2749.6	2948.2	2911.6	2318.8	1364.4
75°	112.4	119.9	145.1	197.6	319.9	504.6	1495.6	1687.8	1611.0	1059.3	502.2
77.5°	83.2	85.7	98.6	125.8	171.3	196.6	645.3	767.7	719.1	383.4	166.4
80°	60.9	62.9	73.3	89.1	108.0	100.1	243.2	278.8	250.1	130.2	51.0
82.5°	37.1	37.7	53.5	66.4	67.9	56.0	80.3	86.2	90.1	73.3	27.7
85°	13.4	16.8	36.2	48.1	40.1	28.3	33.7	37.1	40.6	46.6	16.4
87.5°	1.5	2.0	17.3	23.3	11.4	10.4	12.4	13.9	14.9	17.3	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648288
 CATALOG NUMBER: GALN-SA2B-835-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4	736.4
2.5°	740.9	742.8	741.3	738.9	738.4	737.0	734.0	734.0	734.0	734.9	734.0
5°	751.8	753.2	749.8	744.9	739.4	732.5	725.1	720.6	720.1	719.1	716.6
7.5°	772.6	774.5	766.6	754.7	739.9	723.0	707.2	692.3	685.4	680.0	680.0
10°	802.8	804.8	789.0	767.7	737.9	703.8	666.1	632.0	605.2	592.8	589.8
12.5°	839.0	839.9	813.7	776.6	727.5	661.6	581.5	506.6	454.6	430.9	428.4
15°	878.6	871.6	836.9	780.0	697.8	575.0	436.3	344.7	290.7	274.8	280.8
17.5°	918.7	905.8	854.8	774.5	630.9	436.3	293.2	235.2	218.4	213.9	213.9
20°	956.4	938.5	867.6	750.8	515.1	300.6	217.4	203.6	200.6	197.6	198.1
22.5°	993.9	966.7	879.1	697.8	383.8	214.9	194.7	190.2	186.2	182.3	181.7
25°	1030.6	993.0	883.5	599.8	261.5	184.7	177.8	171.9	164.0	159.5	158.5
27.5°	1068.7	1024.6	880.6	475.9	190.7	165.4	158.5	150.0	140.6	132.7	132.7
30°	1142.0	1085.1	870.1	342.2	160.4	145.6	136.7	123.3	112.9	105.0	104.5
32.5°	1242.1	1163.9	834.5	240.7	142.7	128.3	114.9	100.1	89.1	83.2	83.2
35°	1331.3	1243.1	767.7	177.3	128.3	111.4	95.1	80.7	72.3	68.4	66.9
37.5°	1467.0	1359.0	675.5	144.2	114.4	96.5	79.7	66.4	59.4	56.5	56.5
40°	1670.5	1500.6	562.6	126.3	101.0	82.2	66.4	56.0	50.5	47.1	47.1
42.5°	1923.0	1673.9	448.2	113.4	88.6	70.8	55.4	47.5	42.6	40.1	39.6
45°	2241.0	1856.6	345.2	101.6	78.8	60.4	47.1	40.1	35.2	33.7	34.1
47.5°	2572.8	2017.6	267.4	91.1	68.4	51.0	40.1	34.7	31.2	29.2	29.2
50°	2856.1	2128.6	203.0	79.2	60.4	43.1	35.2	31.2	28.3	27.2	26.8
52.5°	3092.8	2160.8	155.5	68.8	53.0	37.1	31.2	28.3	25.8	24.3	24.3
55°	3294.4	2132.5	121.8	57.9	44.6	32.2	27.7	25.3	22.3	20.8	20.3
57.5°	3412.2	2041.9	93.1	48.1	36.2	26.8	24.3	21.3	17.9	15.3	15.3
60°	3471.7	1910.1	71.3	39.6	27.7	21.3	19.8	15.8	12.4	10.4	9.9
62.5°	3400.3	1735.4	53.9	31.2	20.8	15.8	13.4	11.4	7.9	6.0	6.0
63°	3356.3	1684.9	52.0	29.7	19.3	14.9	12.4	10.4	7.0	5.5	4.9
65°	3059.7	1464.4	42.6	23.8	15.3	10.4	8.5	7.4	4.9	2.5	2.0
67.5°	2429.6	1120.2	33.7	17.9	10.9	7.4	4.9	4.5	1.5	0.0	0.0
70°	1642.7	723.6	26.2	12.8	7.4	4.5	2.5	2.0	0.5	0.0	0.0
72.5°	856.8	370.9	20.3	9.4	4.5	3.0	1.5	0.5	0.0	0.0	0.0
75°	303.1	126.3	14.9	6.0	3.0	1.5	0.5	0.0	0.0	0.0	0.0
77.5°	91.6	47.1	9.4	4.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	32.2	17.3	5.5	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	15.8	8.5	3.4	2.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.9	5.5	3.0	2.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	4.0	3.0	2.5	2.0	1.0	0.5	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)