

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: P647950

Luminaire Tested: **GALN-SA5A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647950
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-SA5A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 13405 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

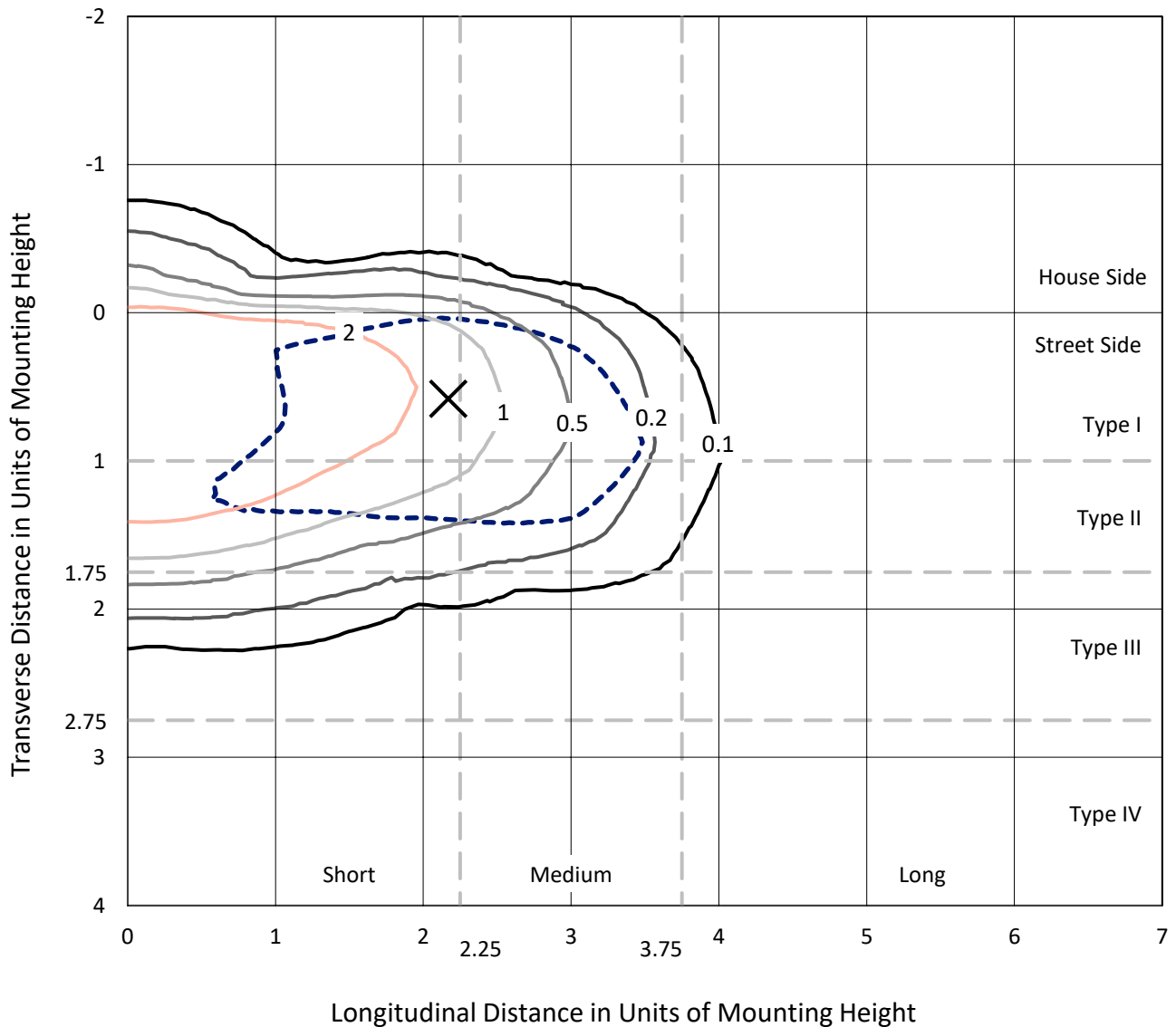
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

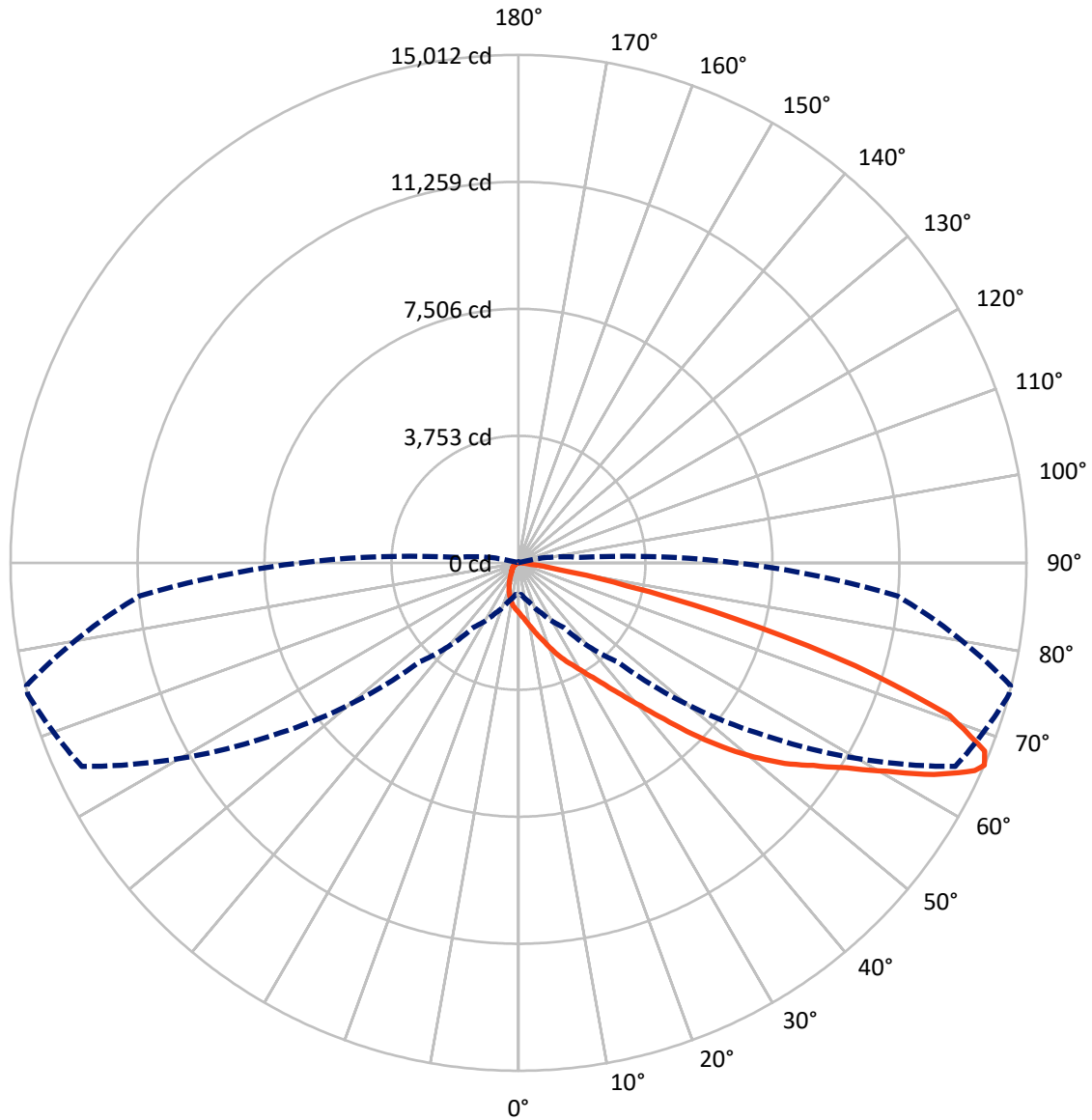
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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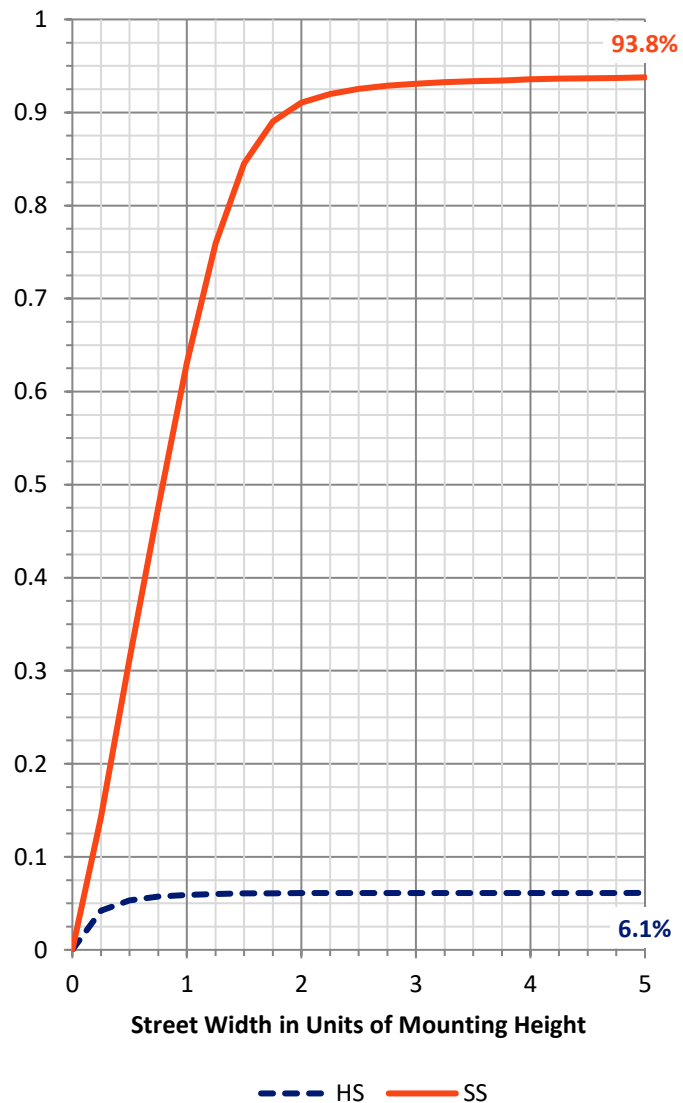
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.6	0.0	827.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12577.4	0.0	12577.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	13405.0	0.0	13405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.1
10°-20°	416.1	3.1
20°-30°	718.6	5.4
30°-40°	1296.1	9.7
40°-50°	2341.5	17.5
50°-60°	3650.5	27.2
60°-70°	3467.8	25.9
70°-80°	1299.6	9.7
80°-90°	73.3	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°	13405.0	100.0
0°-180°	13405.0	100.0

Coefficient of Utilization

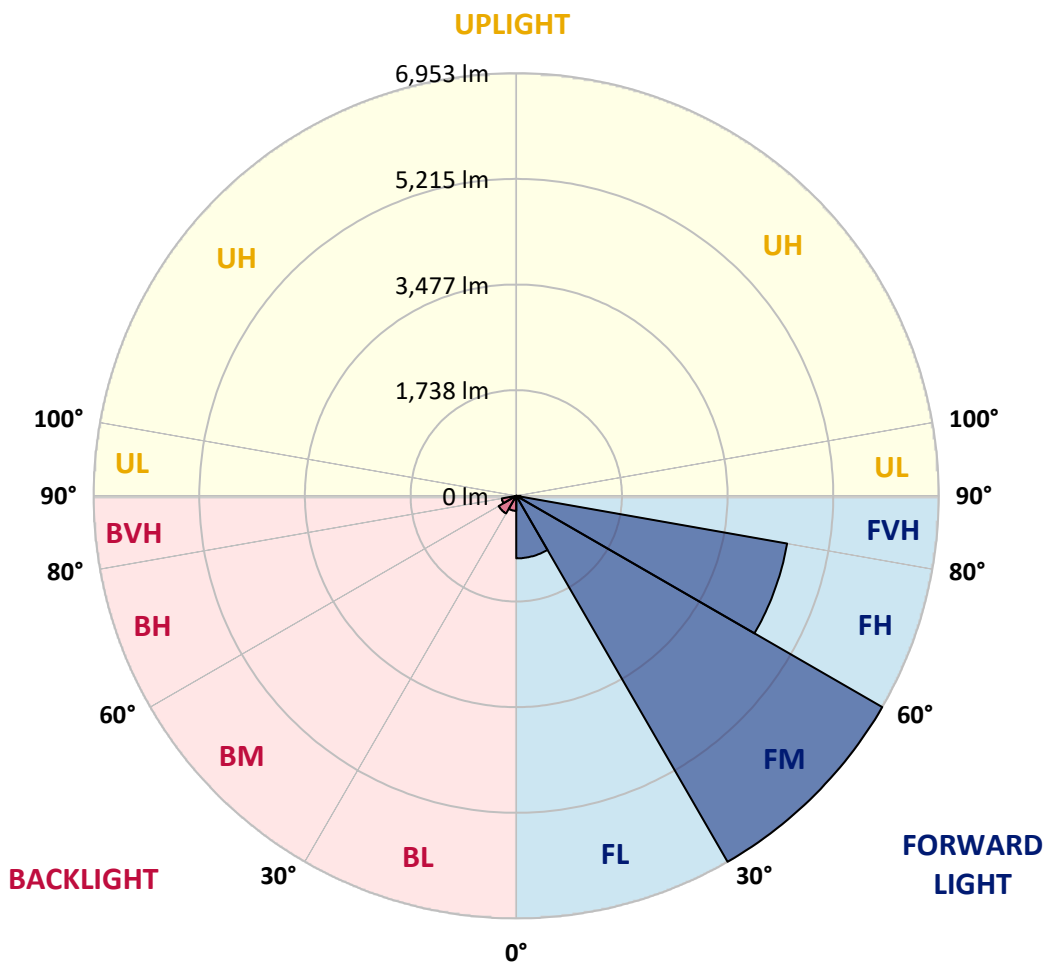


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.9	7.7			
FM (30°-60°)	6953.1	51.9			
FH (60°-80°)	4525.8	33.8			G2/5000
FVH (80°-90°)	69.5	0.5			G1/100
BL (0°-30°)	247.1	1.8	B1/500		
BM (30°-60°)	335.0	2.5	B1/1000		
BH (60°-80°)	241.7	1.8	B1/500		G1/500
BVH (80°-90°)	3.8	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°	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9
2.5°	1751.4	1729.6	1736.5	1726.7	1703.9	1670.1	1640.4	1597.8	1555.2	1548.2	1500.6
5°	1982.4	1976.4	1968.5	1939.7	1923.9	1872.4	1810.9	1737.6	1649.3	1633.5	1547.2
7.5°	2139.9	2137.0	2141.0	2126.1	2112.2	2065.6	2000.3	1900.1	1763.3	1754.4	1610.7
10°	2191.5	2199.4	2214.3	2238.1	2259.9	2245.0	2195.5	2070.6	1911.0	1885.2	1683.1
12.5°	2161.8	2170.7	2206.4	2269.8	2340.2	2380.9	2361.0	2269.8	2067.6	2046.8	1764.3
15°	2085.4	2096.3	2146.9	2245.0	2370.9	2485.9	2535.4	2470.1	2250.0	2216.3	1862.4
17.5°	1972.5	1988.4	2060.7	2190.5	2363.0	2561.2	2701.0	2679.2	2444.3	2412.6	1969.5
20°	1887.2	1899.1	1960.6	2109.2	2329.3	2602.8	2858.6	2920.0	2684.1	2629.6	2095.4
22.5°	1943.7	1947.7	1968.5	2057.7	2268.8	2613.7	2997.3	3170.8	2938.8	2890.3	2226.2
25°	2220.3	2180.6	2159.8	2139.9	2256.0	2603.9	3123.2	3432.5	3192.6	3141.1	2356.0
27.5°	2656.4	2638.6	2533.5	2392.7	2366.0	2616.7	3206.5	3680.3	3431.5	3376.0	2482.9
30°	3131.1	3100.4	3036.0	2829.8	2622.7	2707.9	3267.0	3921.1	3714.0	3640.6	2598.9
32.5°	3567.3	3587.1	3490.9	3278.8	3039.0	2902.2	3345.3	4183.8	4038.1	3946.9	2733.7
35°	4075.7	4115.4	3967.7	3764.5	3484.0	3253.1	3497.9	4480.2	4449.4	4334.5	2941.8
37.5°	4592.1	4615.9	4525.7	4240.3	3987.5	3699.1	3785.3	4845.9	4955.9	4857.8	3190.6
40°	5026.3	5059.0	4992.6	4738.9	4469.3	4215.5	4202.6	5244.4	5558.6	5457.5	3561.3
42.5°	5358.4	5383.1	5385.1	5205.7	4962.9	4847.9	4734.9	5752.9	6313.9	6196.9	3991.5
45°	5777.6	5813.3	5792.5	5670.6	5489.2	5468.4	5409.9	6367.4	7217.9	7070.1	4549.5
47.5°	6425.8	6449.6	6398.1	6254.4	6070.1	6102.7	6068.0	7056.2	8139.6	8012.8	5127.4
50°	6875.8	6915.5	6988.8	7046.4	6912.6	6791.6	6688.5	7699.6	9014.8	8900.8	5718.2
52.5°	6870.9	6936.4	7168.3	7457.7	7750.1	7713.4	7417.0	8410.2	9850.4	9709.7	6273.2
55°	6408.0	6534.9	6875.8	7389.3	8199.1	8602.5	8467.7	9232.9	10572.0	10476.9	6916.5
57.5°	5452.5	5529.9	6003.7	6721.3	7948.3	9020.8	9684.8	10348.0	11437.3	11392.7	7915.6
60°	3667.4	3702.1	4311.7	5198.8	6766.8	8603.5	10576.9	11697.0	12502.9	12481.0	9082.3
62.5°	2101.3	2116.2	2558.2	3306.6	4815.2	7291.1	10652.2	13361.2	13780.5	13792.4	10432.2
65°	1131.0	1138.9	1495.7	1940.7	2930.0	5196.8	9578.8	14273.1	14813.3	14836.0	11268.8
66°	976.3	938.7	1190.4	1654.3	2331.3	4136.2	8899.9	14240.3	15011.5	14986.8	11239.0
67.5°	742.4	776.1	950.6	1271.7	1727.6	2940.9	7347.7	13607.0	14860.9	14783.5	10782.1
70°	531.3	545.1	677.0	906.9	1176.5	1613.7	4695.3	11301.5	13506.9	13402.8	9393.5
72.5°	343.0	357.8	479.7	656.2	850.4	881.2	2628.6	8165.4	10413.4	10398.6	7074.1
75°	244.8	258.7	317.2	469.8	639.3	545.1	1265.7	5503.1	6620.1	6575.6	4376.1
77.5°	177.4	184.4	212.1	307.2	457.0	390.6	586.8	2938.8	3295.7	3451.3	1933.8
80°	102.1	108.1	147.7	187.4	309.3	266.6	280.5	1179.5	1216.2	1157.7	604.6
82.5°	50.6	57.5	88.2	127.9	193.2	179.4	128.9	354.9	374.7	364.7	152.6
85°	11.9	14.9	49.6	84.3	94.2	80.3	62.5	104.1	128.9	125.9	58.5
87.5°	1.0	2.0	17.9	14.9	15.9	26.8	21.8	26.8	41.7	38.7	20.8
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°	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9	1465.9
2.5°	1478.9	1460.0	1405.5	1352.0	1307.4	1260.8	1218.2	1193.4	1183.5	1172.5	1177.6
5°	1499.7	1454.1	1344.0	1248.9	1155.7	1076.4	1013.0	972.3	952.5	949.5	944.6
7.5°	1527.4	1449.1	1278.6	1129.9	1008.0	919.8	847.4	789.0	771.2	755.3	742.4
10°	1561.1	1440.2	1197.4	1005.1	875.2	764.2	669.1	599.7	564.0	554.1	561.0
12.5°	1596.8	1423.3	1112.1	890.1	740.4	598.7	510.4	475.8	465.9	461.9	462.9
15°	1632.5	1402.5	1022.9	779.1	589.8	477.8	437.1	428.2	424.2	422.3	420.2
17.5°	1665.2	1368.8	922.8	671.0	477.8	408.3	393.5	385.5	377.6	374.7	369.7
20°	1703.9	1330.2	832.6	550.1	404.4	369.7	351.9	337.0	325.1	317.2	316.2
22.5°	1740.5	1280.6	738.4	455.9	368.7	332.1	303.3	287.4	273.6	263.6	266.6
25°	1760.3	1220.1	654.2	397.5	336.0	294.4	262.7	242.8	228.0	223.0	222.1
27.5°	1760.3	1145.8	571.9	363.8	306.3	260.7	228.0	209.1	199.2	192.3	193.2
30°	1746.5	1063.5	495.6	338.0	280.5	231.0	200.2	183.4	175.5	170.5	169.5
32.5°	1735.6	985.2	430.2	313.2	253.8	205.1	178.4	165.5	157.6	152.6	152.6
35°	1752.4	917.8	379.6	288.5	228.9	185.3	161.5	149.6	141.7	137.8	136.8
37.5°	1797.0	856.4	341.0	261.7	206.2	168.5	149.6	135.8	127.9	122.9	120.9
40°	1907.1	821.7	312.3	236.9	184.4	154.6	135.8	122.9	113.0	108.1	107.0
42.5°	2083.5	822.7	284.5	214.1	167.5	142.7	123.9	109.0	98.1	93.2	92.2
45°	2349.1	860.4	262.7	192.3	152.6	129.8	111.0	95.1	85.3	80.3	80.3
47.5°	2667.3	933.7	243.8	173.4	138.7	117.9	98.1	82.3	72.3	68.4	68.4
50°	3012.2	1028.9	225.0	153.6	126.8	105.1	84.3	71.3	63.4	60.4	60.4
52.5°	3364.1	1143.8	206.2	137.8	114.0	91.2	72.3	63.4	56.5	54.5	53.6
55°	3826.0	1290.5	186.4	120.9	100.1	78.3	64.4	55.5	47.6	44.6	43.6
57.5°	4536.6	1511.6	164.5	106.0	82.3	65.4	55.5	46.6	37.7	32.7	31.7
60°	5394.0	1781.2	141.7	93.2	66.4	53.6	44.6	35.7	27.7	21.8	20.8
62.5°	6196.9	1952.6	120.0	78.3	52.5	40.6	31.7	26.8	19.8	13.9	12.9
65°	6551.8	1895.2	99.1	63.4	41.7	28.7	20.8	18.9	11.9	6.0	4.9
66°	6433.8	1809.9	91.2	57.5	37.7	24.7	17.9	15.9	8.9	3.0	3.0
67.5°	6085.9	1608.7	79.3	49.6	32.7	19.8	13.9	11.9	4.9	1.0	0.0
70°	5214.6	1301.4	62.5	36.6	23.8	13.9	7.9	6.0	3.0	0.0	0.0
72.5°	4005.4	969.4	49.6	27.7	16.8	7.9	4.0	2.0	3.0	0.0	0.0
75°	2454.2	554.1	38.7	20.8	10.9	4.9	3.0	0.0	3.0	1.0	0.0
77.5°	1089.3	248.8	25.8	13.9	7.9	4.0	2.0	0.0	2.0	1.0	0.0
80°	275.5	81.3	14.9	9.9	6.0	3.0	1.0	0.0	2.0	2.0	1.0
82.5°	75.3	29.8	10.9	7.9	4.9	3.0	1.0	0.0	2.0	2.0	2.0
85°	29.8	13.9	9.9	7.9	6.0	3.0	1.0	0.0	2.0	2.0	2.0
87.5°	13.9	9.9	9.9	8.9	7.0	3.0	1.0	0.0	2.0	1.0	2.0
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)