

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: P454886

Luminaire Tested: **GALN-SA6A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17866 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

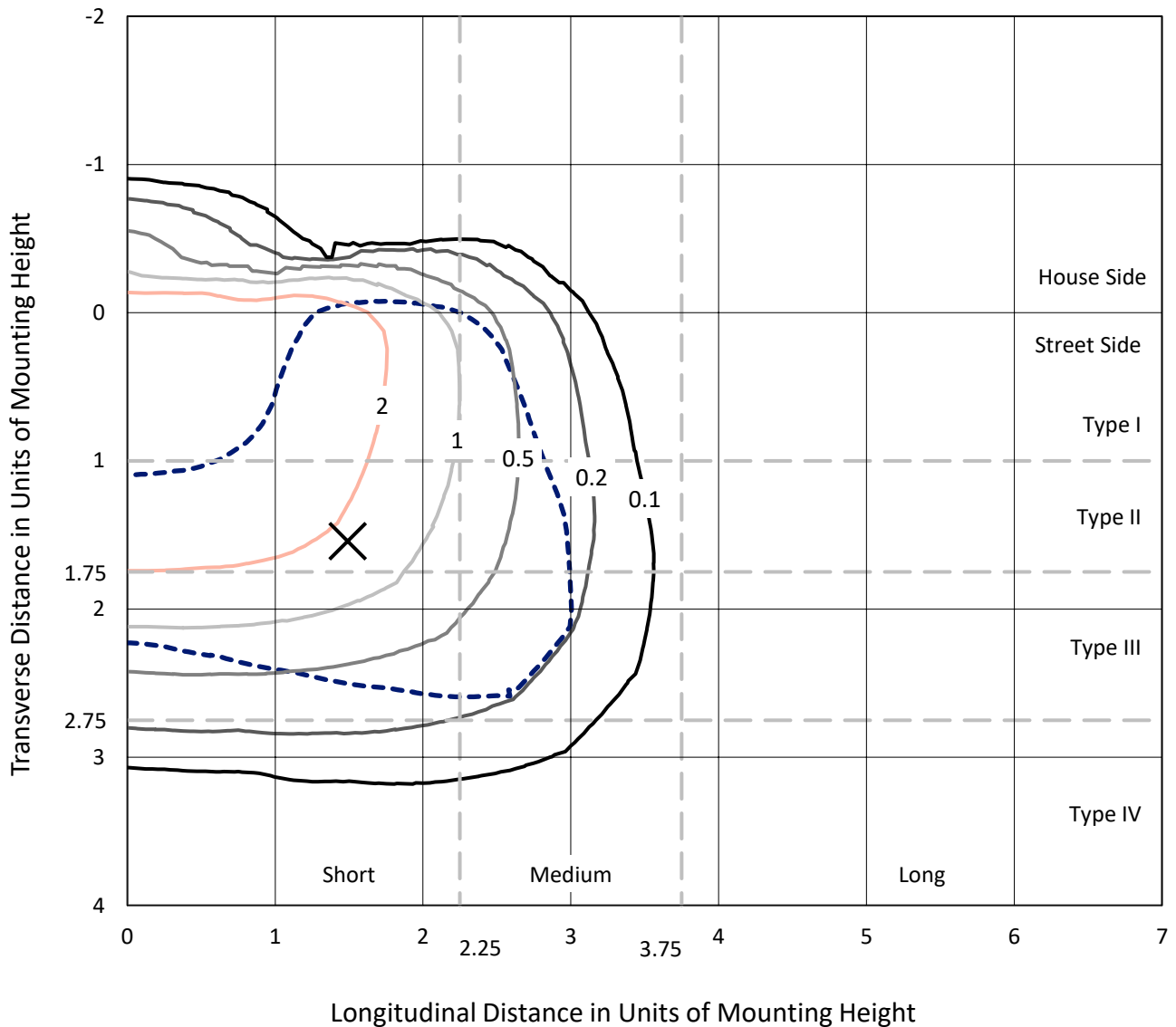
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454886
 CATALOG NUMBER: GALN-SA6A-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

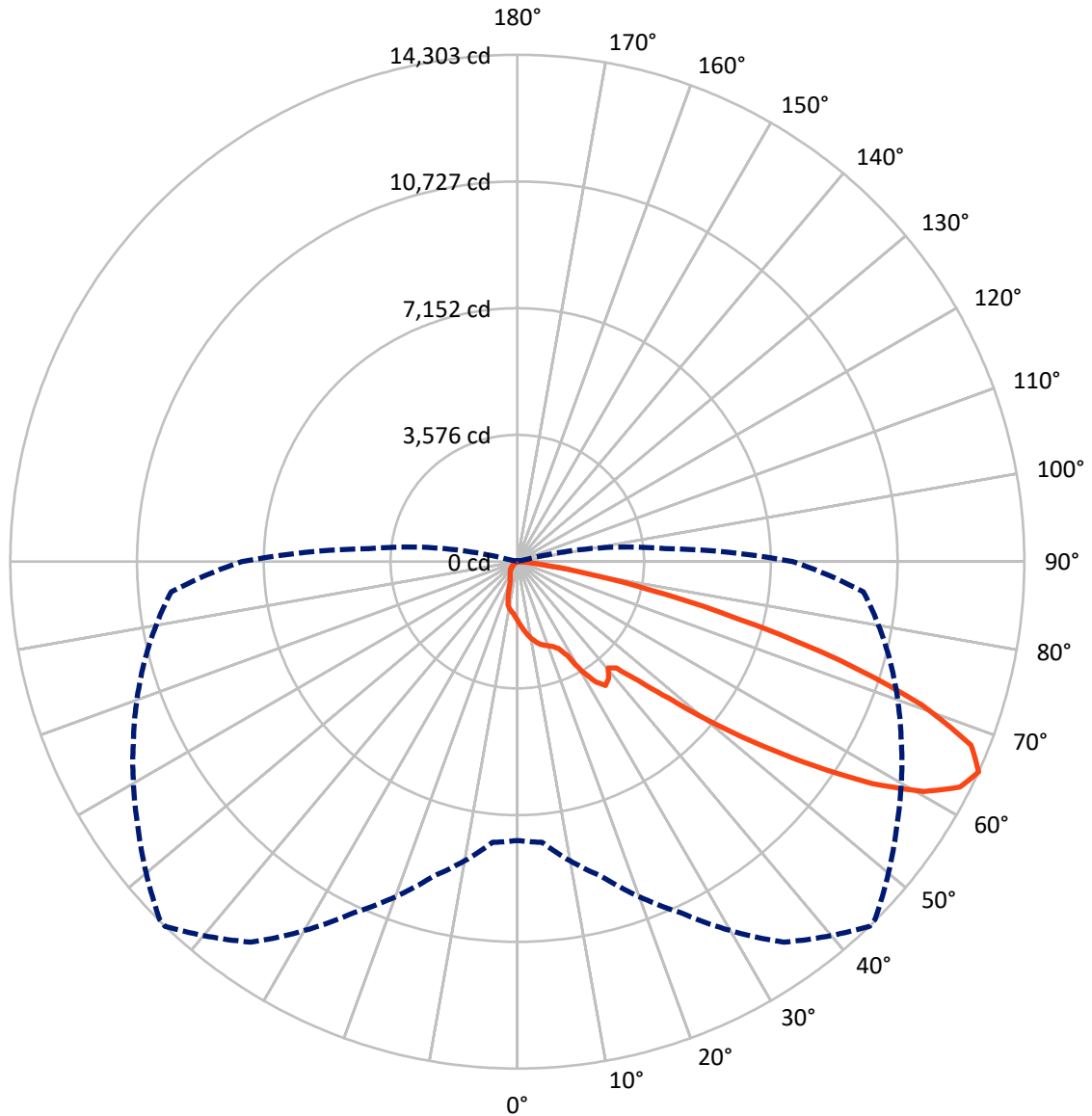
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

REPORT NUMBER: P454886
CATALOG NUMBER: GALN-SA6A-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P454886

CATALOG NUMBER: GALN-SA6A-730-U-T4W-HSS

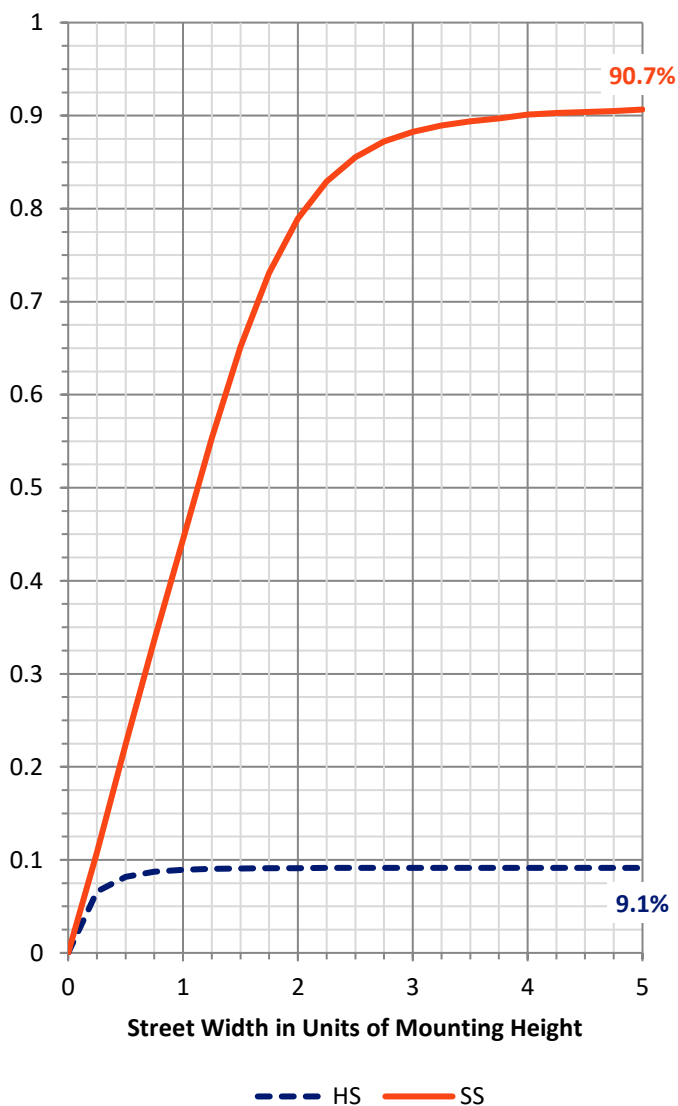
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1646.1	0.0	1646.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	16219.9	0.0	16219.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	17866.0	0.0	17866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	0.9
10°-20°	497.7	2.8
20°-30°	844.0	4.7
30°-40°	1403.3	7.9
40°-50°	2450.2	13.7
50°-60°	4786.8	26.8
60°-70°	5553.8	31.1
70°-80°	2022.4	11.3
80°-90°	142.5	0.8
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°	17866.0	100.0
0°-180°	17866.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454886

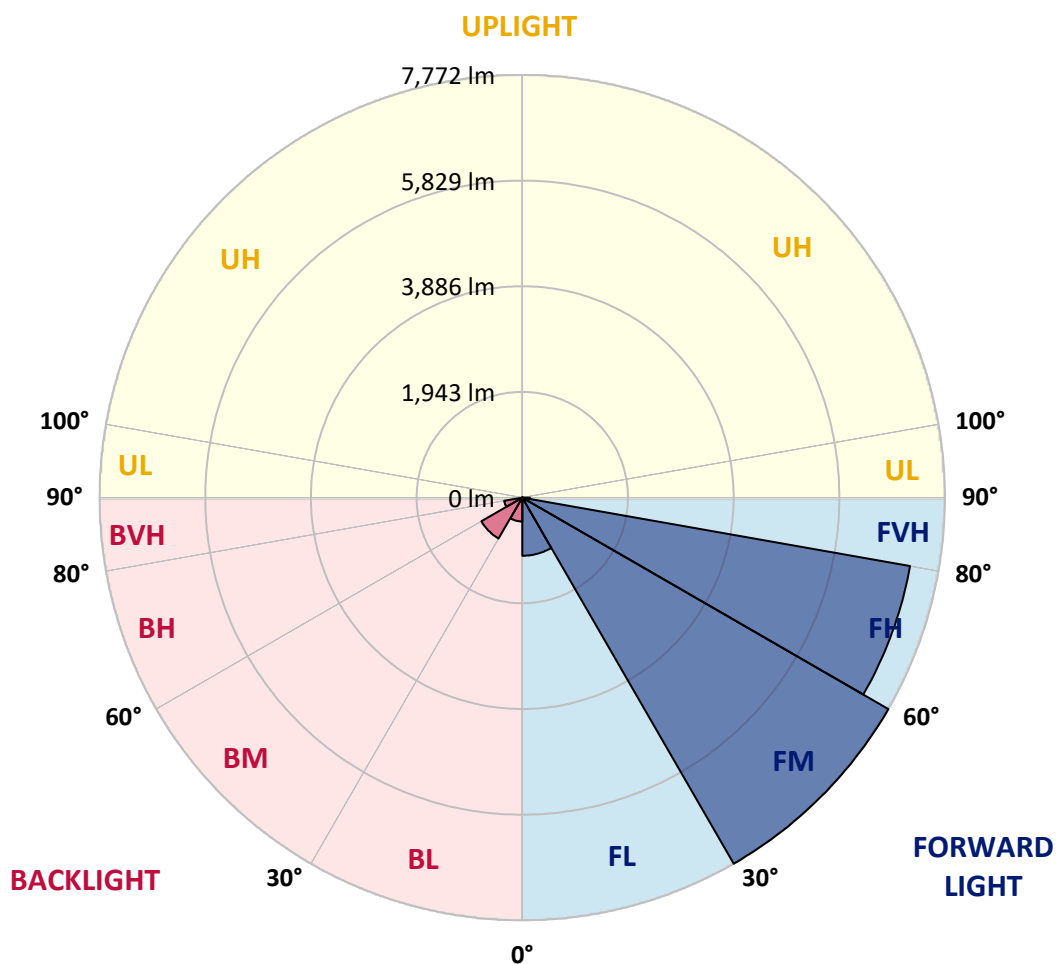
CATALOG NUMBER: GALN-SA6A-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.5	6.0			
FM (30°-60°)	7771.7	43.5			
FH (60°-80°)	7239.1	40.5			G3/7500
FVH (80°-90°)	140.6	0.8			G2/225
BL (0°-30°)	438.6	2.5	B1/500		
BM (30°-60°)	868.5	4.9	B1/1000		
BH (60°-80°)	337.1	1.9	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-G3

Type III Short





REPORT NUMBER: P454886

CATALOG NUMBER: GALN-SA6A-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8
2.5°	1871.7	1863.5	1859.4	1837.5	1821.2	1800.7	1800.7	1774.7	1744.7	1711.9	1681.9
5°	2080.5	2066.9	2049.1	2030.0	1991.8	1937.2	1937.2	1882.6	1819.8	1763.8	1702.4
7.5°	2281.2	2268.9	2238.9	2202.0	2139.2	2081.9	2077.8	1998.6	1923.5	1838.9	1751.5
10°	2457.3	2447.8	2421.8	2350.8	2285.3	2210.2	2208.9	2120.1	2032.8	1929.0	1821.2
12.5°	2580.2	2581.6	2547.4	2479.2	2394.5	2323.5	2318.1	2230.7	2139.2	2027.3	1894.9
15°	2667.6	2667.6	2632.1	2555.6	2479.2	2416.4	2410.9	2334.5	2240.3	2118.8	1975.4
17.5°	2692.1	2700.3	2662.1	2593.8	2532.4	2477.8	2476.4	2412.3	2337.2	2219.8	2057.3
20°	2682.6	2690.8	2660.7	2607.5	2565.2	2533.8	2529.7	2503.7	2434.1	2323.5	2144.7
22.5°	2662.1	2670.3	2648.5	2617.1	2596.6	2606.1	2599.3	2621.1	2584.3	2450.5	2248.5
25°	2666.2	2674.4	2658.0	2640.3	2658.0	2716.7	2734.5	2828.7	2795.9	2611.6	2360.4
27.5°	2794.5	2810.9	2787.7	2795.9	2858.7	2995.2	3029.3	3191.8	3047.1	2816.4	2535.1
30°	3079.9	3068.9	3025.2	3064.8	3283.3	3572.7	3563.1	3537.2	3310.6	3052.5	2742.7
32.5°	3339.2	3329.7	3326.9	3497.6	3893.5	4034.1	4027.3	3776.1	3546.7	3322.9	2947.4
35°	3444.4	3407.5	3399.3	3813.0	4475.1	4289.4	4247.1	3874.4	3833.4	3617.7	3156.3
37.5°	3761.1	3735.1	3608.2	3864.8	4243.0	4181.6	4148.8	4043.7	4139.2	3878.5	3392.5
40°	4413.6	4341.3	4226.6	3975.4	3914.0	3939.9	3972.7	4260.7	4501.0	4234.8	3707.8
42.5°	5224.6	5208.2	4995.2	4526.9	4066.9	4102.4	4144.7	4714.0	5021.1	4771.3	4222.5
45°	6197.9	6221.1	5914.0	5361.1	4757.7	4787.7	4849.1	5382.9	5725.6	5605.4	5032.1
47.5°	7082.6	7064.8	6961.1	6386.3	5829.3	5762.4	5862.1	6241.6	6700.3	6719.4	6036.8
50°	7972.7	8066.9	7912.6	7687.3	7273.7	7133.1	7096.2	7281.9	7980.9	7889.4	7243.7
52.5°	9251.8	9301.0	9011.6	8954.2	9048.4	8592.5	8555.6	8600.6	9225.9	8911.9	8147.4
55°	10055.9	10027.3	9919.4	10367.2	10739.9	10170.6	10124.2	9942.6	10259.3	9634.1	9017.0
57.5°	10309.9	10350.8	10602.0	11411.6	12293.5	11810.2	11725.5	11209.5	11004.7	10307.1	9817.0
60°	10196.5	10271.6	10813.6	12017.7	13240.9	13168.5	13096.2	12229.3	11539.9	10869.6	10378.1
62.5°	9389.7	9494.8	10361.7	11909.8	13561.7	14013.6	13923.5	12865.5	11896.2	11142.6	10476.4
65°	7868.9	7946.7	9191.8	10931.0	13105.7	14303.0	14270.2	13064.8	11952.2	10892.8	9803.4
67.5°	5609.5	5874.4	7028.0	9212.2	11756.9	13808.8	13864.8	12825.9	11426.6	9812.9	8118.7
70°	3526.3	3706.5	4533.8	6595.2	9425.2	12114.6	12298.9	11732.4	9916.7	7649.1	5434.8
72.5°	1681.9	1815.7	2405.5	4174.7	6652.5	9531.7	9677.8	9631.4	7668.2	4819.1	2804.1
75°	749.5	800.0	1148.1	2131.0	4294.9	6406.8	6785.0	6847.8	4791.8	2357.7	1090.8
77.5°	382.3	383.6	537.9	1032.1	2144.7	3822.5	3897.6	4117.4	2597.9	1038.9	379.5
80°	203.4	217.1	285.3	487.4	1112.6	1882.6	1873.0	2058.7	1152.2	509.2	127.0
82.5°	91.5	101.0	161.1	255.3	543.3	714.0	770.0	842.3	494.2	324.9	56.0
85°	27.3	32.8	79.2	128.3	196.6	206.1	230.7	297.6	279.9	230.7	28.7
87.5°	4.1	4.1	32.8	35.5	28.7	36.9	38.2	42.3	90.1	84.6	15.0
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: P454886

CATALOG NUMBER: GALN-SA6A-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8	1662.8
2.5°	1665.5	1656.0	1621.8	1593.2	1568.6	1553.6	1535.8	1524.9	1519.4	1515.4	1516.7
5°	1672.3	1649.1	1590.4	1544.0	1508.5	1470.3	1444.4	1429.3	1422.5	1411.6	1411.6
7.5°	1710.6	1673.7	1591.8	1520.8	1459.4	1407.5	1358.4	1340.6	1328.3	1325.6	1322.9
10°	1765.2	1718.8	1606.8	1508.5	1421.2	1350.2	1280.5	1219.1	1171.3	1142.7	1138.6
12.5°	1833.4	1766.5	1630.0	1500.3	1388.4	1262.8	1078.5	954.3	871.0	845.0	849.1
15°	1896.2	1823.9	1653.2	1493.5	1328.3	1047.1	838.2	696.2	653.9	649.8	651.2
17.5°	1971.3	1885.3	1680.5	1484.0	1163.1	800.0	622.5	584.3	592.5	606.1	604.8
20°	2049.1	1950.8	1713.3	1426.6	928.3	602.0	550.2	554.3	566.6	578.8	581.6
22.5°	2132.4	2025.9	1751.5	1288.7	708.5	524.2	521.5	527.0	539.2	552.9	555.6
25°	2247.1	2120.1	1780.2	1108.5	536.5	484.6	490.1	499.7	510.6	525.6	528.3
27.5°	2394.5	2247.1	1795.2	873.7	464.2	449.1	450.5	464.2	477.8	491.5	491.5
30°	2585.7	2398.6	1765.2	660.7	428.7	415.0	409.6	417.7	435.5	449.1	450.5
32.5°	2756.3	2542.0	1686.0	505.1	402.7	383.6	370.0	371.3	378.2	386.3	387.7
35°	2927.0	2681.2	1550.8	424.6	375.4	353.6	333.1	322.2	316.7	312.6	316.7
37.5°	3145.4	2854.6	1370.6	386.3	352.2	324.9	296.2	273.0	253.9	241.6	244.4
40°	3426.6	3094.9	1157.7	361.8	330.4	297.6	259.4	229.4	196.6	185.7	180.2
42.5°	3890.8	3459.4	933.8	341.3	308.5	268.9	221.2	180.2	150.2	139.2	142.0
45°	4623.9	3919.4	719.5	319.5	286.7	237.5	185.7	142.0	117.4	111.9	114.7
47.5°	5595.9	4514.7	554.3	294.9	259.4	203.4	146.1	111.9	96.9	95.6	94.2
50°	6510.6	5068.9	462.8	267.6	226.6	169.3	120.1	94.2	84.6	83.3	83.3
52.5°	7337.9	5466.2	376.8	236.2	191.1	139.2	101.0	83.3	75.1	71.0	71.0
55°	8073.7	5725.6	305.8	198.0	150.2	110.6	87.4	75.1	65.5	60.1	58.7
57.5°	8629.3	5757.0	229.4	158.4	111.9	86.0	75.1	65.5	54.6	47.8	45.1
60°	8866.9	5485.3	169.3	120.1	83.3	68.3	60.1	53.2	41.0	34.1	32.8
62.5°	8628.0	4957.0	125.6	91.5	64.2	50.5	42.3	39.6	28.7	20.5	19.1
65°	7772.0	4193.8	99.7	69.6	47.8	36.9	27.3	25.9	17.7	9.6	8.2
67.5°	6226.6	3284.6	79.2	51.9	34.1	24.6	17.7	16.4	9.6	2.7	2.7
70°	4049.1	2099.7	64.2	38.2	21.8	16.4	10.9	8.2	5.5	1.4	0.0
72.5°	2002.7	981.6	51.9	30.0	15.0	8.2	4.1	2.7	4.1	0.0	0.0
75°	776.8	349.5	38.2	20.5	8.2	4.1	2.7	0.0	1.4	0.0	0.0
77.5°	258.0	116.0	23.2	10.9	5.5	2.7	0.0	0.0	0.0	0.0	0.0
80°	95.6	45.1	12.3	6.8	2.7	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	38.2	17.7	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	10.9	5.5	4.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	8.2	5.5	4.1	2.7	1.4	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)