

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: P455466

Luminaire Tested: **GALN-SA6C-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455466
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-SA6C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 22170 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

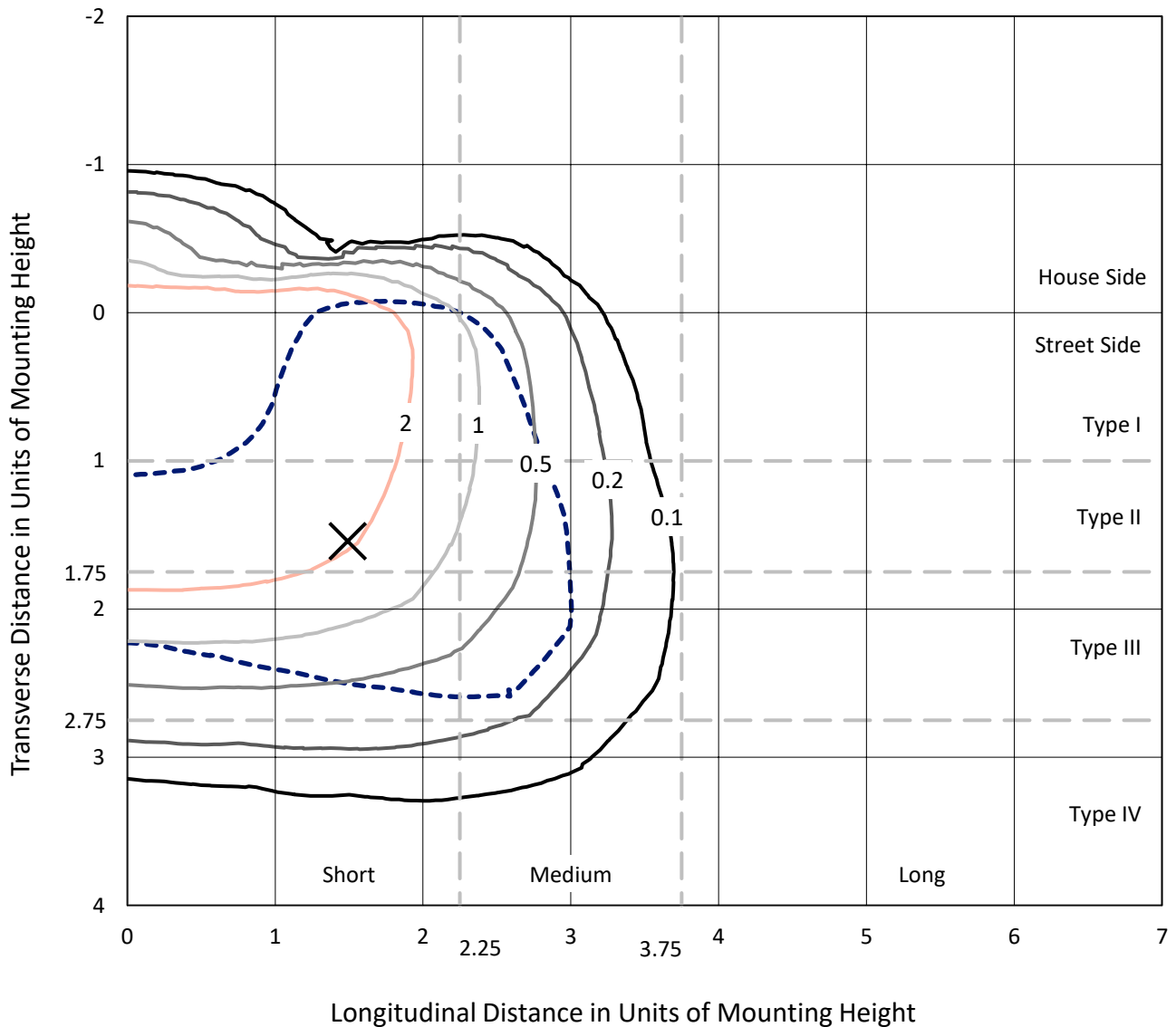
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

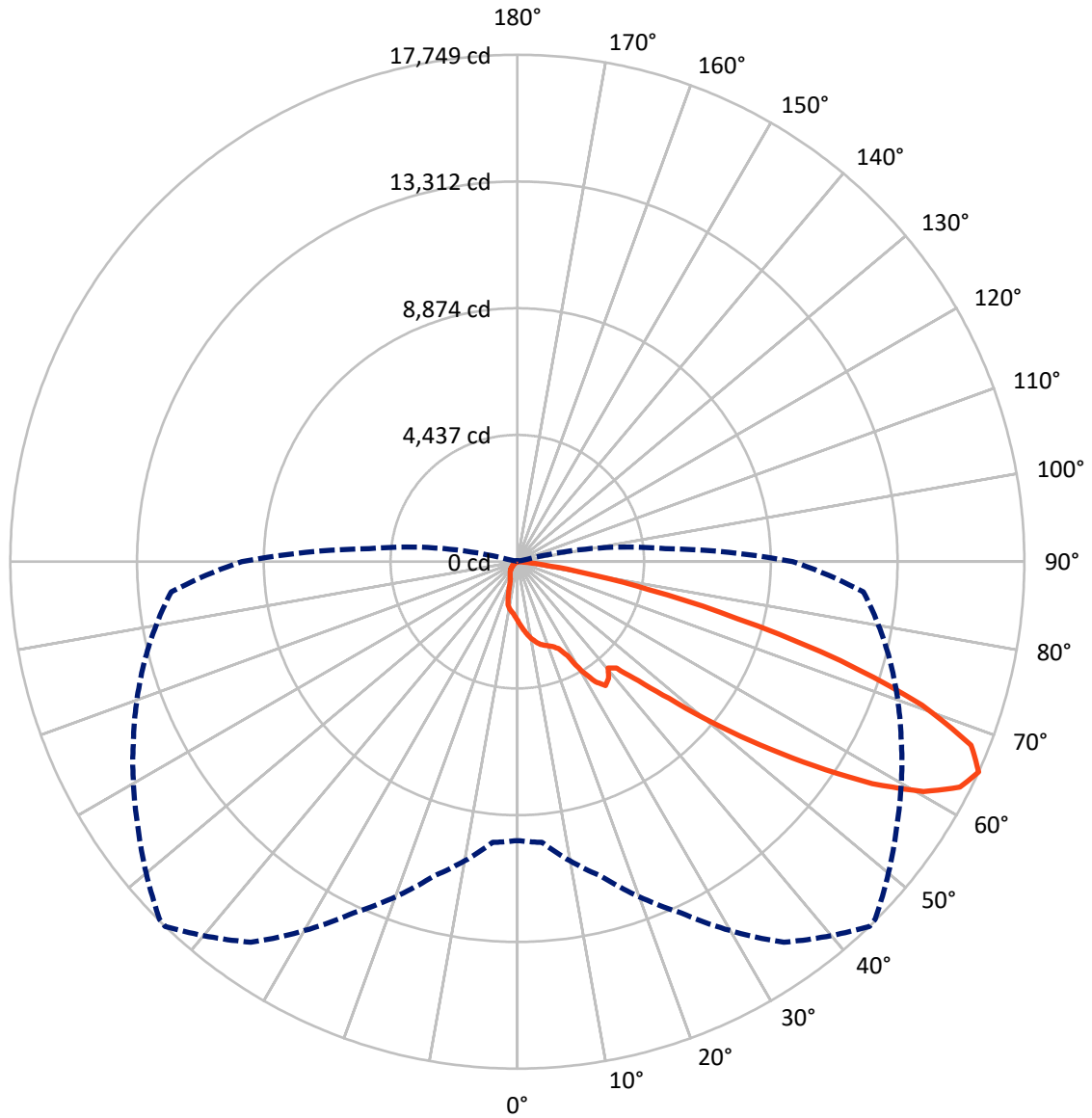
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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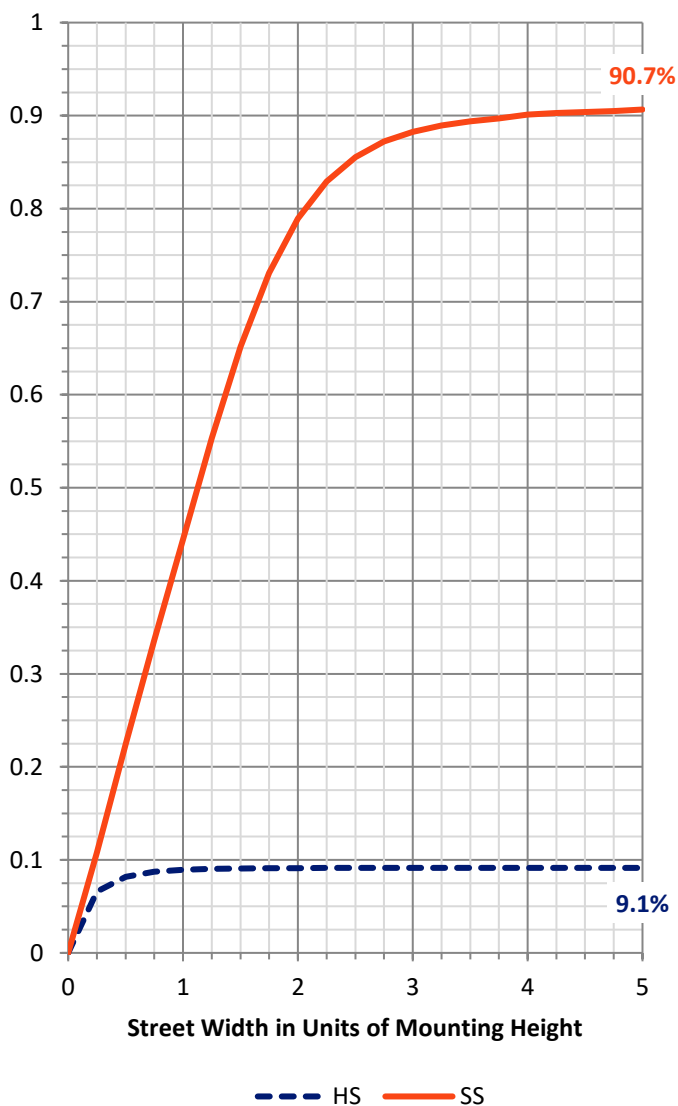
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.6	0.0	2042.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	20127.4	0.0	20127.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	22170.0	0.0	22170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	0.9
10°-20°	617.7	2.8
20°-30°	1047.3	4.7
30°-40°	1741.3	7.9
40°-50°	3040.4	13.7
50°-60°	5939.9	26.8
60°-70°	6891.7	31.1
70°-80°	2509.6	11.3
80°-90°	176.8	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°	22170.0	100.0
0°-180°	22170.0	100.0

Coefficient of Utilization



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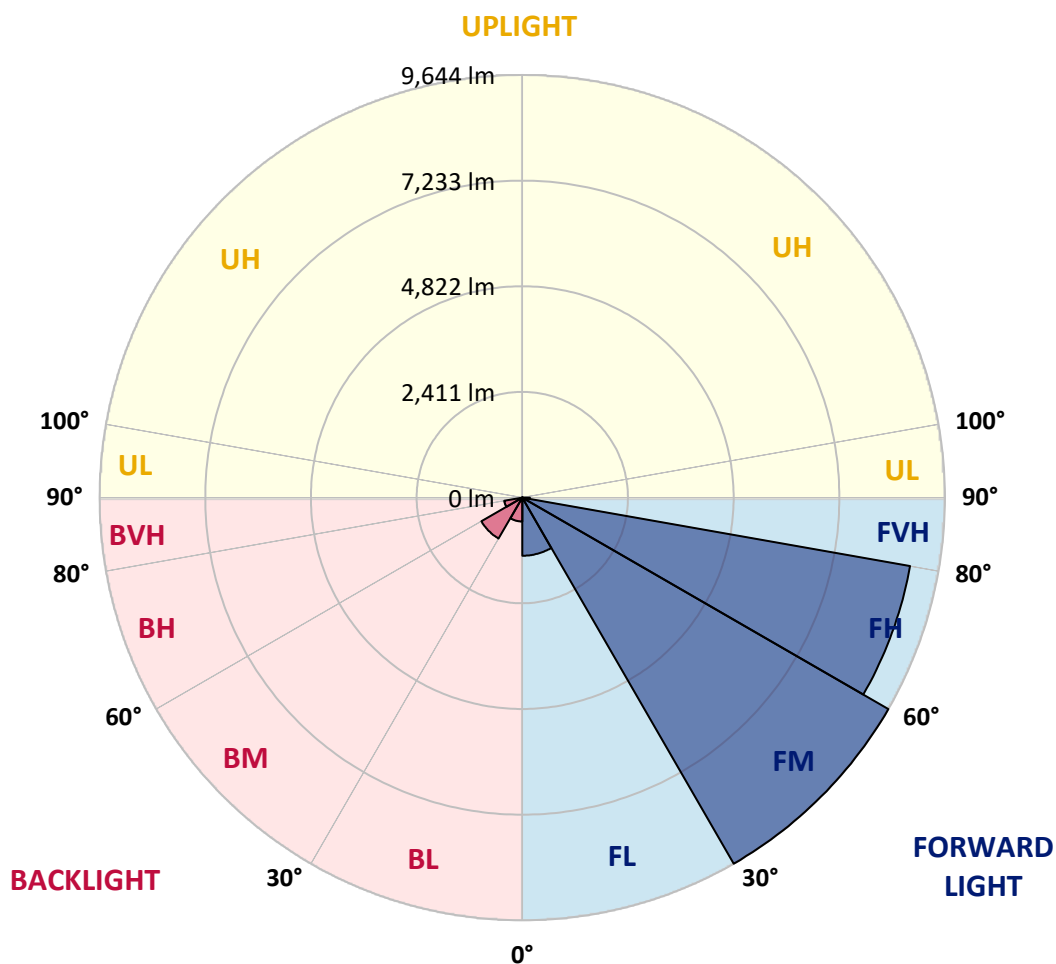
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1326.0	6.0			
FM	(30°-60°)	9644.0	43.5			
FH	(60°-80°)	8983.0	40.5			G4/12000
FVH	(80°-90°)	174.4	0.8			G2/225
BL	(0°-30°)	544.2	2.5	B2/1000		
BM	(30°-60°)	1077.7	4.9	B2/2500		
BH	(60°-80°)	418.3	1.9	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4
2.5°	2322.6	2312.4	2307.3	2280.2	2259.9	2234.5	2234.5	2202.3	2165.0	2124.4	2087.1
5°	2581.7	2564.8	2542.8	2519.1	2471.6	2403.9	2403.9	2336.1	2258.2	2188.7	2112.5
7.5°	2830.8	2815.5	2778.3	2732.5	2654.6	2583.4	2578.4	2480.1	2386.9	2281.9	2173.5
10°	3049.3	3037.5	3005.3	2917.2	2835.9	2742.7	2741.0	2630.9	2522.5	2393.7	2259.9
12.5°	3201.8	3203.5	3161.1	3076.4	2971.4	2883.3	2876.5	2768.1	2654.6	2515.7	2351.4
15°	3310.2	3310.2	3266.1	3171.3	3076.4	2998.5	2991.7	2896.8	2780.0	2629.2	2451.3
17.5°	3340.7	3350.9	3303.4	3218.7	3142.5	3074.7	3073.0	2993.4	2900.2	2754.5	2552.9
20°	3328.8	3339.0	3301.7	3235.7	3183.1	3144.2	3139.1	3106.9	3020.5	2883.3	2661.4
22.5°	3303.4	3313.6	3286.5	3247.5	3222.1	3234.0	3225.5	3252.6	3206.9	3040.8	2790.1
25°	3308.5	3318.7	3298.3	3276.3	3298.3	3371.2	3393.2	3510.1	3469.4	3240.7	2929.0
27.5°	3467.7	3488.1	3459.3	3469.4	3547.4	3716.8	3759.1	3960.7	3781.1	3494.8	3145.9
30°	3821.8	3808.2	3754.0	3803.2	4074.2	4433.4	4421.5	4389.3	4108.1	3787.9	3403.4
32.5°	4143.7	4131.8	4128.4	4340.2	4831.5	5005.9	4997.5	4685.8	4401.2	4123.3	3657.5
35°	4274.1	4228.4	4218.2	4731.5	5553.1	5322.7	5270.2	4807.7	4756.9	4489.3	3916.7
37.5°	4667.1	4634.9	4477.4	4795.9	5265.1	5188.9	5148.3	5017.8	5136.4	4812.8	4209.7
40°	5476.9	5387.1	5244.8	4933.1	4856.9	4889.1	4929.7	5287.2	5585.3	5255.0	4601.1
42.5°	6483.2	6462.8	6198.6	5617.5	5046.6	5090.7	5143.2	5849.6	6230.8	5920.7	5239.7
45°	7691.0	7719.8	7338.7	6652.6	5903.8	5941.1	6017.3	6679.7	7104.9	6955.8	6244.3
47.5°	8788.8	8766.8	8638.0	7924.8	7233.6	7150.6	7274.3	7745.2	8314.4	8338.2	7491.1
50°	9893.3	10010.2	9818.8	9539.3	9026.0	8851.5	8805.7	9036.1	9903.5	9790.0	8988.7
52.5°	11480.6	11541.6	11182.5	11111.3	11228.2	10662.4	10616.7	10672.6	11448.5	11058.8	10110.2
55°	12478.5	12442.9	12309.0	12864.7	13327.2	12620.8	12563.2	12337.8	12730.9	11955.0	11189.3
57.5°	12793.5	12844.4	13156.1	14160.7	15255.0	14655.3	14550.3	13909.9	13655.8	12790.2	12182.0
60°	12652.9	12746.1	13418.7	14912.8	16430.7	16340.9	16251.1	15175.4	14319.9	13488.1	12878.2
62.5°	11651.7	11782.2	12857.9	14779.0	16828.8	17389.5	17277.7	15964.8	14762.0	13826.9	13000.2
65°	9764.6	9861.1	11406.1	13564.3	16263.0	17748.7	17708.0	16212.2	14831.5	13516.9	12165.0
67.5°	6960.9	7289.5	8721.0	11431.5	14589.3	17135.4	17204.9	15915.7	14179.3	12176.9	10074.6
70°	4375.8	4599.4	5626.0	8184.0	11695.8	15033.1	15261.8	14558.8	12305.7	9491.8	6744.1
72.5°	2087.1	2253.1	2984.9	5180.4	8255.2	11827.9	12009.2	11951.6	9515.5	5980.0	3479.6
75°	930.0	992.7	1424.7	2644.4	5329.5	7950.2	8419.5	8497.4	5946.2	2925.6	1353.6
77.5°	474.3	476.0	667.5	1280.7	2661.4	4743.4	4836.5	5109.3	3223.8	1289.2	470.9
80°	252.4	269.4	354.1	604.8	1380.7	2336.1	2324.3	2554.6	1429.8	631.9	157.5
82.5°	113.5	125.4	199.9	316.8	674.2	886.0	955.5	1045.2	613.2	403.2	69.5
85°	33.9	40.7	98.3	159.2	243.9	255.8	286.3	369.3	347.3	286.3	35.6
87.5°	5.1	5.1	40.7	44.0	35.6	45.7	47.4	52.5	111.8	105.0	18.6
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°	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4	2063.4
2.5°	2066.8	2054.9	2012.5	1977.0	1946.5	1927.8	1905.8	1892.3	1885.5	1880.4	1882.1
5°	2075.2	2046.4	1973.6	1916.0	1871.9	1824.5	1792.3	1773.7	1765.2	1751.7	1751.7
7.5°	2122.7	2076.9	1975.3	1887.2	1811.0	1746.6	1685.6	1663.6	1648.3	1644.9	1641.5
10°	2190.4	2132.8	1993.9	1871.9	1763.5	1675.4	1589.0	1512.8	1453.5	1417.9	1412.8
12.5°	2275.1	2192.1	2022.7	1861.8	1722.9	1567.0	1338.3	1184.1	1080.8	1048.6	1053.7
15°	2353.1	2263.3	2051.5	1853.3	1648.3	1299.3	1040.2	864.0	811.5	806.4	808.1
17.5°	2446.2	2339.5	2085.4	1841.4	1443.3	992.7	772.5	725.1	735.2	752.2	750.5
20°	2542.8	2420.8	2126.0	1770.3	1152.0	747.1	682.7	687.8	703.0	718.3	721.7
22.5°	2646.1	2514.0	2173.5	1599.2	879.2	650.5	647.1	653.9	669.2	686.1	689.5
25°	2788.4	2630.9	2209.1	1375.6	665.8	601.4	608.2	620.0	633.6	652.2	655.6
27.5°	2971.4	2788.4	2227.7	1084.2	576.0	557.3	559.0	576.0	592.9	609.9	609.9
30°	3208.6	2976.5	2190.4	819.9	531.9	515.0	508.2	518.4	540.4	557.3	559.0
32.5°	3420.3	3154.3	2092.2	626.8	499.7	476.0	459.1	460.8	469.3	479.4	481.1
35°	3632.1	3327.1	1924.5	526.9	465.9	438.8	413.4	399.8	393.0	387.9	393.0
37.5°	3903.1	3542.3	1700.8	479.4	437.1	403.2	367.6	338.8	315.1	299.8	303.2
40°	4252.1	3840.4	1436.6	448.9	410.0	369.3	321.9	284.6	243.9	230.4	223.6
42.5°	4828.1	4292.7	1158.7	423.5	382.9	333.7	274.4	223.6	186.3	172.8	176.2
45°	5737.8	4863.6	892.8	396.4	355.8	294.8	230.4	176.2	145.7	138.9	142.3
47.5°	6944.0	5602.3	687.8	365.9	321.9	252.4	181.3	138.9	120.3	118.6	116.9
50°	8079.0	6290.0	574.3	332.0	281.2	210.1	149.1	116.9	105.0	103.3	103.3
52.5°	9105.6	6783.0	467.6	293.1	237.2	172.8	125.4	103.3	93.2	88.1	88.1
55°	10018.7	7104.9	379.5	245.6	186.3	137.2	108.4	93.2	81.3	74.5	72.8
57.5°	10708.2	7143.9	284.6	196.5	138.9	106.7	93.2	81.3	67.8	59.3	55.9
60°	11002.9	6806.7	210.1	149.1	103.3	84.7	74.5	66.1	50.8	42.4	40.7
62.5°	10706.5	6151.1	155.9	113.5	79.6	62.7	52.5	49.1	35.6	25.4	23.7
65°	9644.3	5204.2	123.7	86.4	59.3	45.7	33.9	32.2	22.0	11.9	10.2
67.5°	7726.6	4075.9	98.3	64.4	42.4	30.5	22.0	20.3	11.9	3.4	3.4
70°	5024.6	2605.5	79.6	47.4	27.1	20.3	13.6	10.2	6.8	1.7	0.0
72.5°	2485.2	1218.0	64.4	37.3	18.6	10.2	5.1	3.4	5.1	0.0	0.0
75°	963.9	433.7	47.4	25.4	10.2	5.1	3.4	0.0	1.7	0.0	0.0
77.5°	320.2	144.0	28.8	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	118.6	55.9	15.2	8.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	47.4	22.0	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.7	13.6	6.8	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	10.2	6.8	5.1	3.4	1.7	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)