

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: P453755

Luminaire Tested: **GALN-SA4D-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453755
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-SA4D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA 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: 22138 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

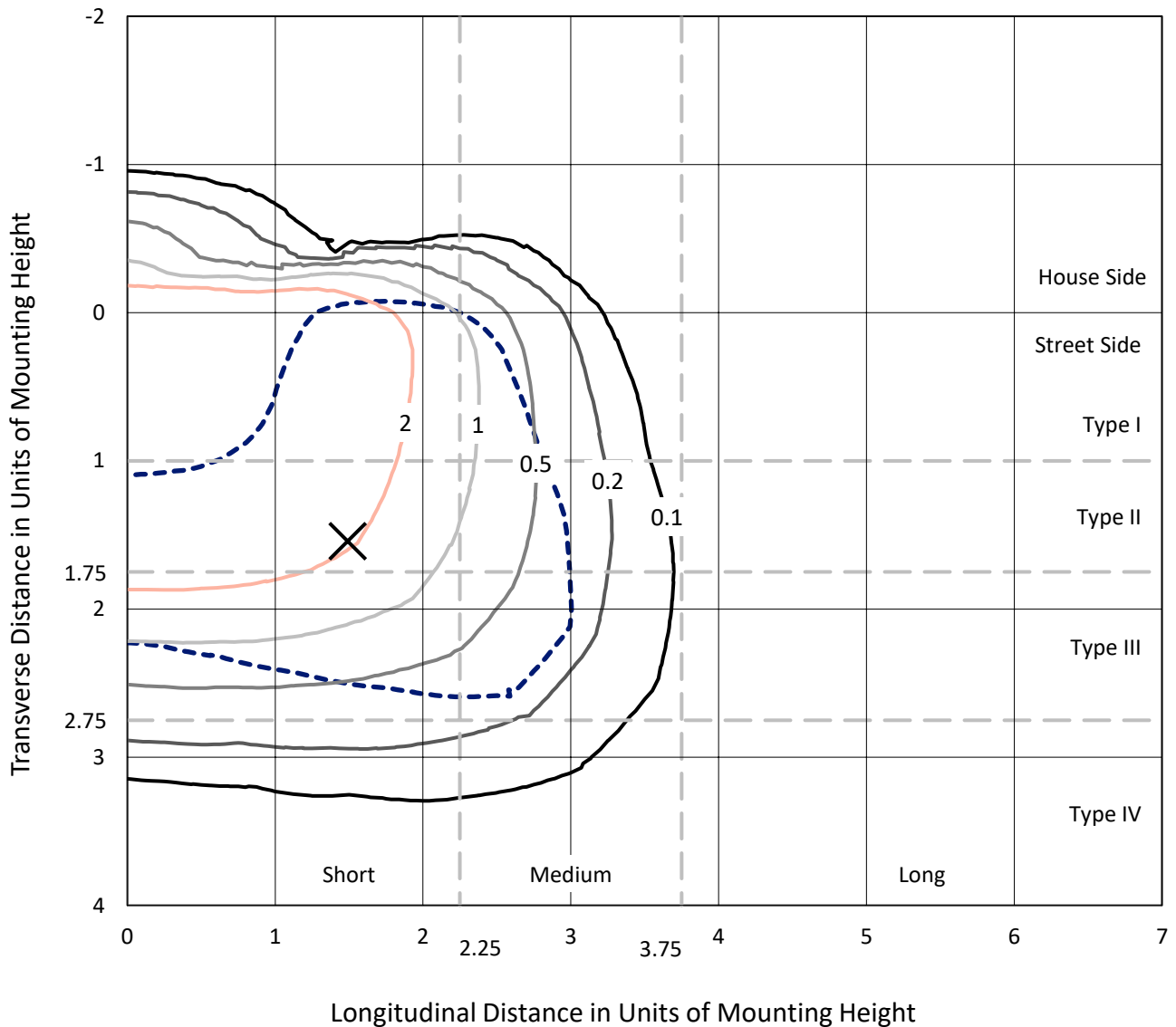
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453755
 CATALOG NUMBER: GALN-SA4D-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

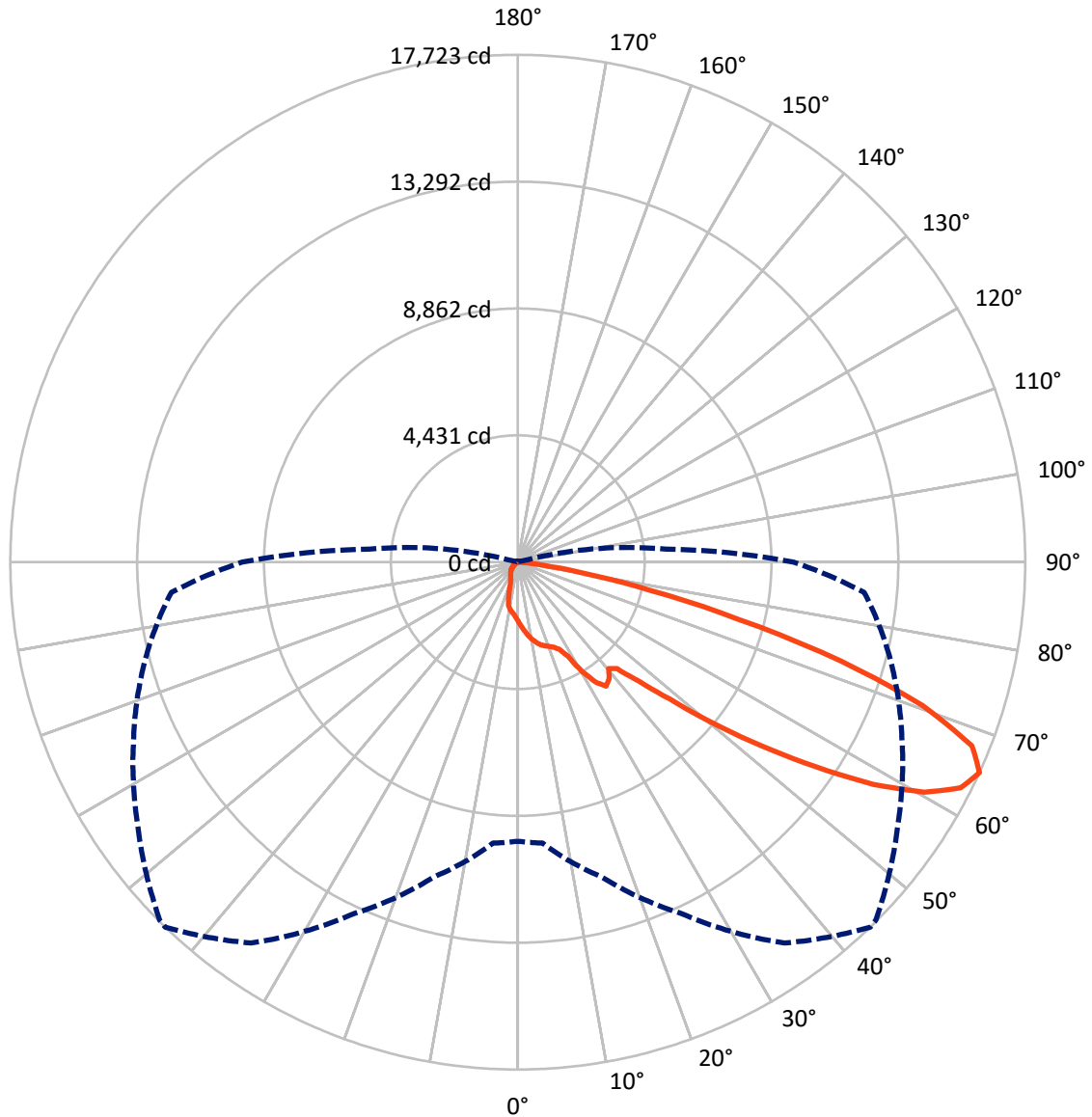
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P453755
CATALOG NUMBER: GALN-SA4D-740-U-T4W-HSS

Luminous Intensity Polar Plot



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

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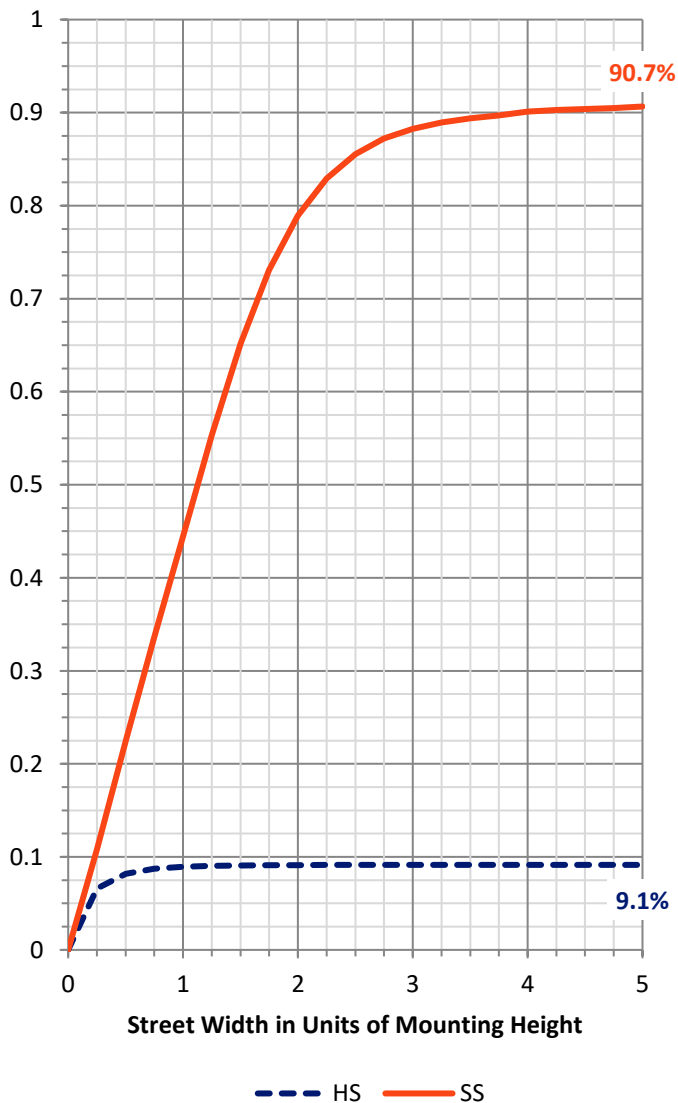
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2039.7	0.0	2039.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	20098.3	0.0	20098.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	22138.0	0.0	22138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	0.9
10°-20°	616.8	2.8
20°-30°	1045.8	4.7
30°-40°	1738.8	7.9
40°-50°	3036.0	13.7
50°-60°	5931.3	26.8
60°-70°	6881.7	31.1
70°-80°	2506.0	11.3
80°-90°	176.6	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°	22138.0	100.0
0°-180°	22138.0	100.0

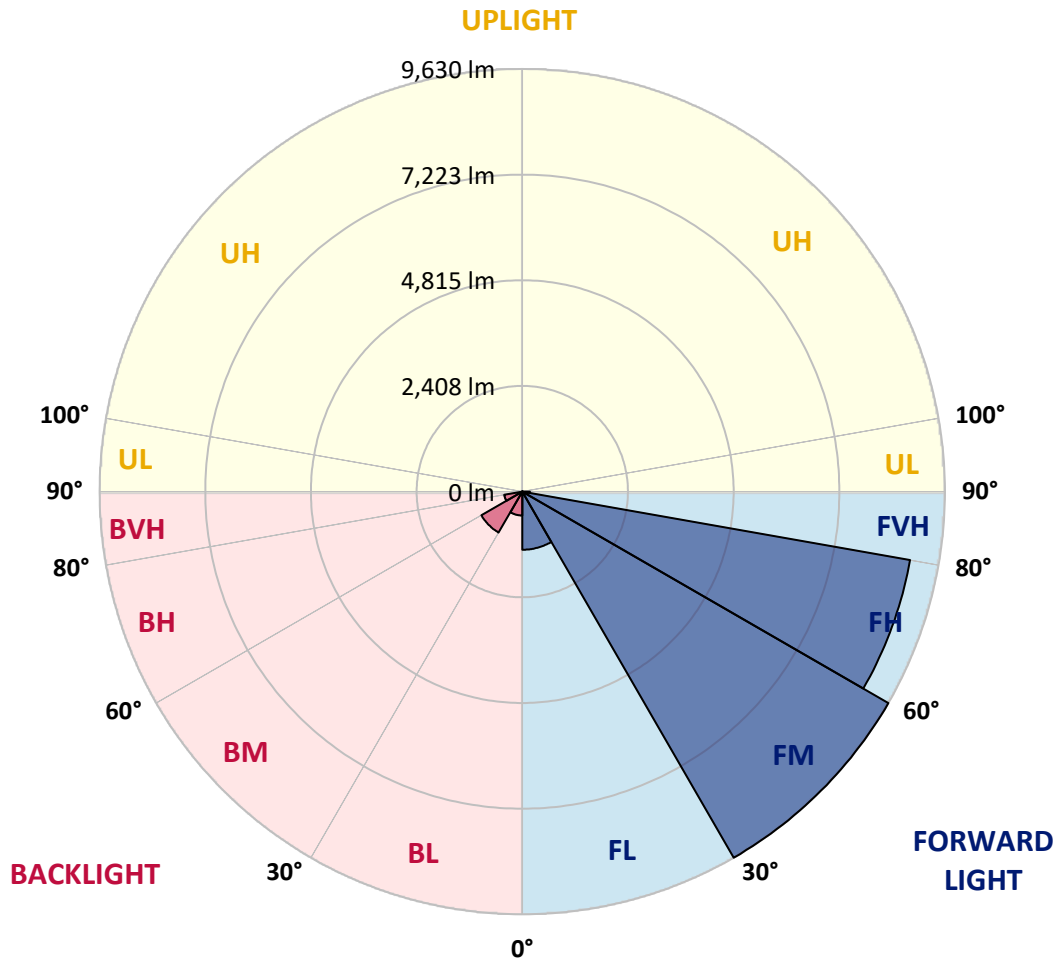


REPORT NUMBER: P453755
 CATALOG NUMBER: GALN-SA4D-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1324.1	6.0			
FM	(30°-60°)	9630.1	43.5			
FH	(60°-80°)	8970.0	40.5			G4/12000
FVH	(80°-90°)	174.2	0.8			G2/225
BL	(0°-30°)	543.4	2.5	B2/1000		
BM	(30°-60°)	1076.1	4.9	B2/2500		
BH	(60°-80°)	417.7	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°	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4
2.5°	2319.2	2309.1	2304.0	2276.9	2256.6	2231.2	2231.2	2199.1	2161.9	2121.3	2084.1
5°	2578.0	2561.1	2539.1	2515.4	2468.1	2400.4	2400.4	2332.7	2254.9	2185.6	2109.4
7.5°	2826.7	2811.5	2774.2	2728.6	2650.8	2579.7	2574.6	2476.5	2383.5	2278.6	2170.3
10°	3044.9	3033.1	3000.9	2913.0	2831.8	2738.7	2737.0	2627.1	2518.8	2390.3	2256.6
12.5°	3197.2	3198.8	3156.6	3072.0	2967.1	2879.1	2872.4	2764.1	2650.8	2512.0	2348.0
15°	3305.4	3305.4	3261.4	3166.7	3072.0	2994.2	2987.4	2892.7	2775.9	2625.4	2447.8
17.5°	3335.9	3346.0	3298.7	3214.1	3137.9	3070.3	3068.6	2989.1	2896.0	2750.6	2549.3
20°	3324.0	3334.2	3297.0	3231.0	3178.5	3139.6	3134.6	3102.4	3016.2	2879.1	2657.5
22.5°	3298.7	3308.8	3281.7	3242.8	3217.5	3229.3	3220.8	3247.9	3202.2	3036.4	2786.1
25°	3303.7	3313.9	3293.6	3271.6	3293.6	3366.3	3388.3	3505.0	3464.4	3236.1	2924.8
27.5°	3462.7	3483.0	3454.3	3464.4	3542.2	3711.4	3753.7	3955.0	3775.7	3489.8	3141.3
30°	3816.3	3802.8	3748.6	3797.7	4068.3	4427.0	4415.1	4383.0	4102.2	3782.5	3398.5
32.5°	4137.7	4125.9	4122.5	4333.9	4824.5	4998.7	4990.3	4679.0	4394.8	4117.4	3652.2
35°	4267.9	4222.3	4212.1	4724.7	5545.1	5315.1	5262.6	4800.8	4750.1	4482.8	3911.0
37.5°	4660.4	4628.3	4470.9	4789.0	5257.5	5181.4	5140.8	5010.6	5129.0	4805.9	4203.7
40°	5469.0	5379.3	5237.2	4926.0	4849.9	4882.0	4922.6	5279.5	5577.3	5247.4	4594.4
42.5°	6473.8	6453.5	6189.6	5609.4	5039.3	5083.3	5135.7	5841.1	6221.8	5912.2	5232.2
45°	7679.9	7708.7	7328.1	6643.0	5895.3	5932.5	6008.6	6670.0	7094.6	6945.8	6235.3
47.5°	8776.1	8754.1	8625.5	7913.4	7223.2	7140.3	7263.8	7734.1	8302.4	8326.1	7480.3
50°	9879.0	9995.8	9804.6	9525.5	9012.9	8838.7	8793.0	9023.1	9889.2	9775.8	8975.7
52.5°	11464.1	11525.0	11166.4	11095.3	11212.0	10647.0	10601.4	10657.2	11431.9	11042.9	10095.6
55°	12460.4	12424.9	12291.3	12846.1	13307.9	12602.5	12545.0	12320.0	12712.5	11937.7	11173.1
57.5°	12775.1	12825.8	13137.1	14140.2	15233.0	14634.2	14529.3	13889.9	13636.1	12771.7	12164.4
60°	12634.7	12727.7	13399.3	14891.3	16407.0	16317.3	16227.7	15153.5	14299.2	13468.6	12859.7
62.5°	11634.9	11765.2	12839.4	14757.7	16804.5	17364.4	17252.8	15941.8	14740.7	13807.0	12981.5
65°	9750.5	9846.9	11389.6	13544.8	16239.5	17723.1	17682.5	16188.8	14810.1	13497.4	12147.5
67.5°	6950.8	7279.0	8708.4	11415.0	14568.2	17110.7	17180.0	15892.7	14158.8	12159.3	10060.0
70°	4369.4	4592.7	5617.9	8172.2	11678.9	15011.4	15239.8	14537.7	12287.9	9478.1	6734.3
72.5°	2084.1	2249.8	2980.6	5173.0	8243.2	11810.9	11991.9	11934.3	9501.8	5971.4	3474.6
75°	928.7	991.3	1422.6	2640.6	5321.8	7938.8	8407.3	8485.1	5937.6	2921.4	1351.6
77.5°	473.7	475.3	666.5	1278.9	2657.5	4736.5	4829.6	5101.9	3219.1	1287.3	470.3
80°	252.1	269.0	353.5	603.9	1378.7	2332.7	2320.9	2551.0	1427.7	631.0	157.3
82.5°	113.3	125.2	199.6	316.3	673.3	884.7	954.1	1043.7	612.4	402.6	69.4
85°	33.8	40.6	98.1	159.0	243.6	255.4	285.9	368.8	346.8	285.9	35.5
87.5°	5.1	5.1	40.6	44.0	35.5	45.7	47.4	52.4	111.6	104.9	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



REPORT NUMBER: P453755

CATALOG NUMBER: GALN-SA4D-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4
2.5°	2063.8	2051.9	2009.6	1974.1	1943.7	1925.1	1903.1	1889.5	1882.8	1877.7	1879.4
5°	2072.2	2043.5	1970.7	1913.2	1869.2	1821.9	1789.7	1771.1	1762.7	1749.1	1749.1
7.5°	2119.6	2073.9	1972.4	1884.5	1808.3	1744.1	1683.2	1661.2	1645.9	1642.6	1639.2
10°	2187.3	2129.7	1991.0	1869.2	1761.0	1673.0	1586.7	1510.6	1451.4	1415.9	1410.8
12.5°	2271.8	2189.0	2019.8	1859.1	1720.4	1564.7	1336.4	1182.4	1079.3	1047.1	1052.2
15°	2349.7	2260.0	2048.5	1850.6	1645.9	1297.5	1038.7	862.7	810.3	805.2	806.9
17.5°	2442.7	2336.1	2082.4	1838.8	1441.3	991.3	771.4	724.0	734.2	751.1	749.4
20°	2539.1	2417.3	2123.0	1767.7	1150.3	746.0	681.7	686.8	702.0	717.2	720.6
22.5°	2642.3	2510.4	2170.3	1596.9	877.9	649.6	646.2	653.0	668.2	685.1	688.5
25°	2784.4	2627.1	2205.9	1373.6	664.8	600.5	607.3	619.1	632.7	651.3	654.7
27.5°	2967.1	2784.4	2224.5	1082.6	575.1	556.5	558.2	575.1	592.1	609.0	609.0
30°	3203.9	2972.2	2187.3	818.7	531.2	514.3	507.5	517.6	539.6	556.5	558.2
32.5°	3415.4	3149.8	2089.1	625.9	499.0	475.3	458.4	460.1	468.6	478.7	480.4
35°	3626.8	3322.3	1921.7	526.1	465.2	438.1	412.8	399.2	392.5	387.4	392.5
37.5°	3897.5	3537.2	1698.4	478.7	436.4	402.6	367.1	338.3	314.6	299.4	302.8
40°	4246.0	3834.9	1434.5	448.3	409.4	368.8	321.4	284.2	243.6	230.1	223.3
42.5°	4821.1	4286.6	1157.1	422.9	382.3	333.2	274.0	223.3	186.1	172.5	175.9
45°	5729.5	4856.6	891.5	395.8	355.2	294.3	230.1	175.9	145.5	138.7	142.1
47.5°	6933.9	5594.2	686.8	365.4	321.4	252.1	181.0	138.7	120.1	118.4	116.7
50°	8067.3	6281.0	573.5	331.6	280.8	209.8	148.9	116.7	104.9	103.2	103.2
52.5°	9092.4	6773.2	466.9	292.6	236.8	172.5	125.2	103.2	93.0	88.0	88.0
55°	10004.2	7094.6	378.9	245.3	186.1	137.0	108.3	93.0	81.2	74.4	72.7
57.5°	10692.7	7133.5	284.2	196.2	138.7	106.6	93.0	81.2	67.7	59.2	55.8
60°	10987.0	6796.9	209.8	148.9	103.2	84.6	74.4	66.0	50.7	42.3	40.6
62.5°	10691.0	6142.3	155.6	113.3	79.5	62.6	52.4	49.1	35.5	25.4	23.7
65°	9630.4	5196.6	123.5	86.3	59.2	45.7	33.8	32.1	22.0	11.8	10.1
67.5°	7715.5	4070.0	98.1	64.3	42.3	30.4	22.0	20.3	11.8	3.4	3.4
70°	5017.3	2601.7	79.5	47.4	27.1	20.3	13.5	10.1	6.8	1.7	0.0
72.5°	2481.6	1216.3	64.3	37.2	18.6	10.1	5.1	3.4	5.1	0.0	0.0
75°	962.5	433.1	47.4	25.4	10.1	5.1	3.4	0.0	1.7	0.0	0.0
77.5°	319.7	143.8	28.8	13.5	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	118.4	55.8	15.2	8.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	47.4	22.0	10.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.7	13.5	6.8	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	10.1	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)