

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: P323977

Luminaire Tested: **GLEON-SA3D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14133 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

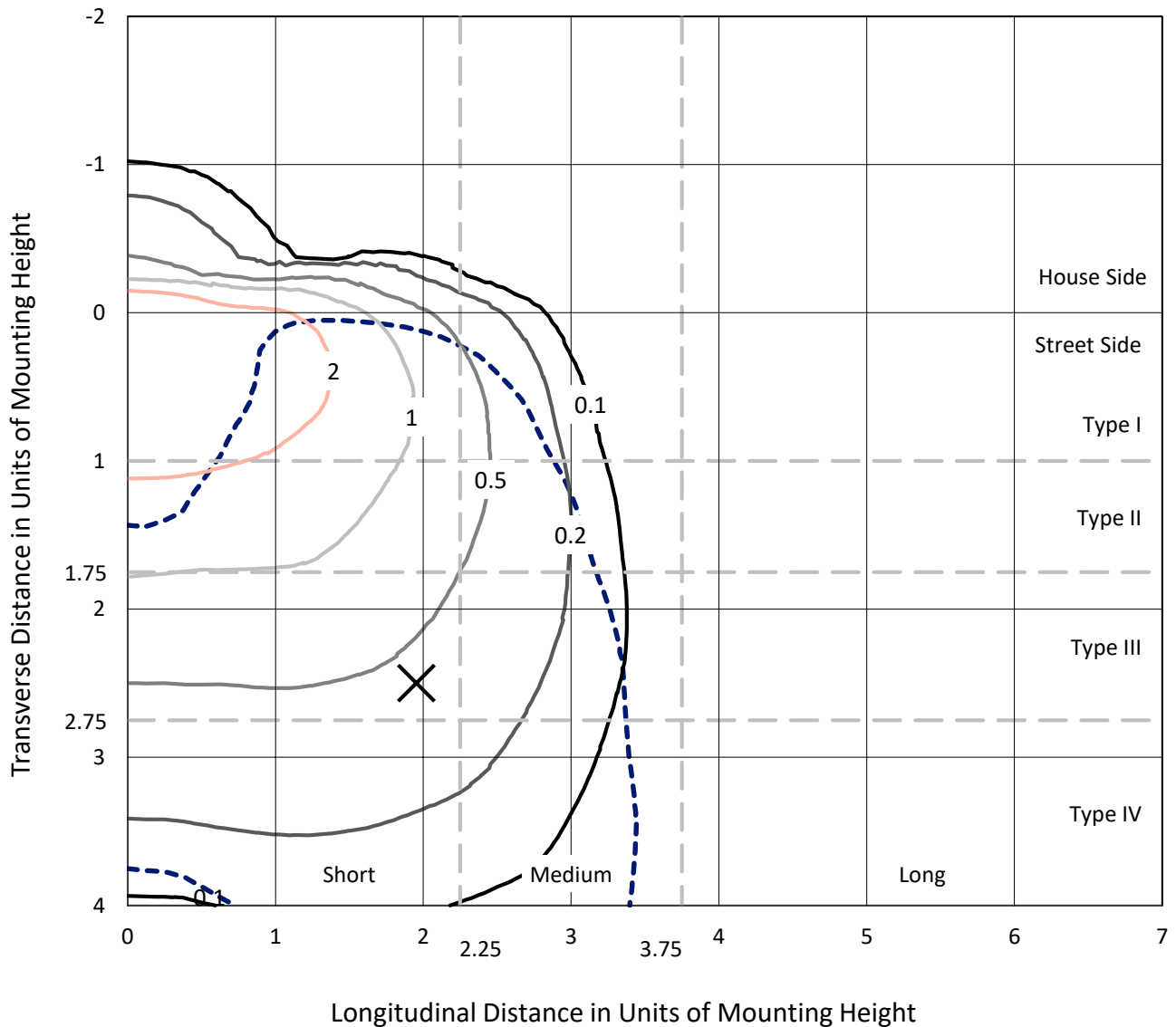
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

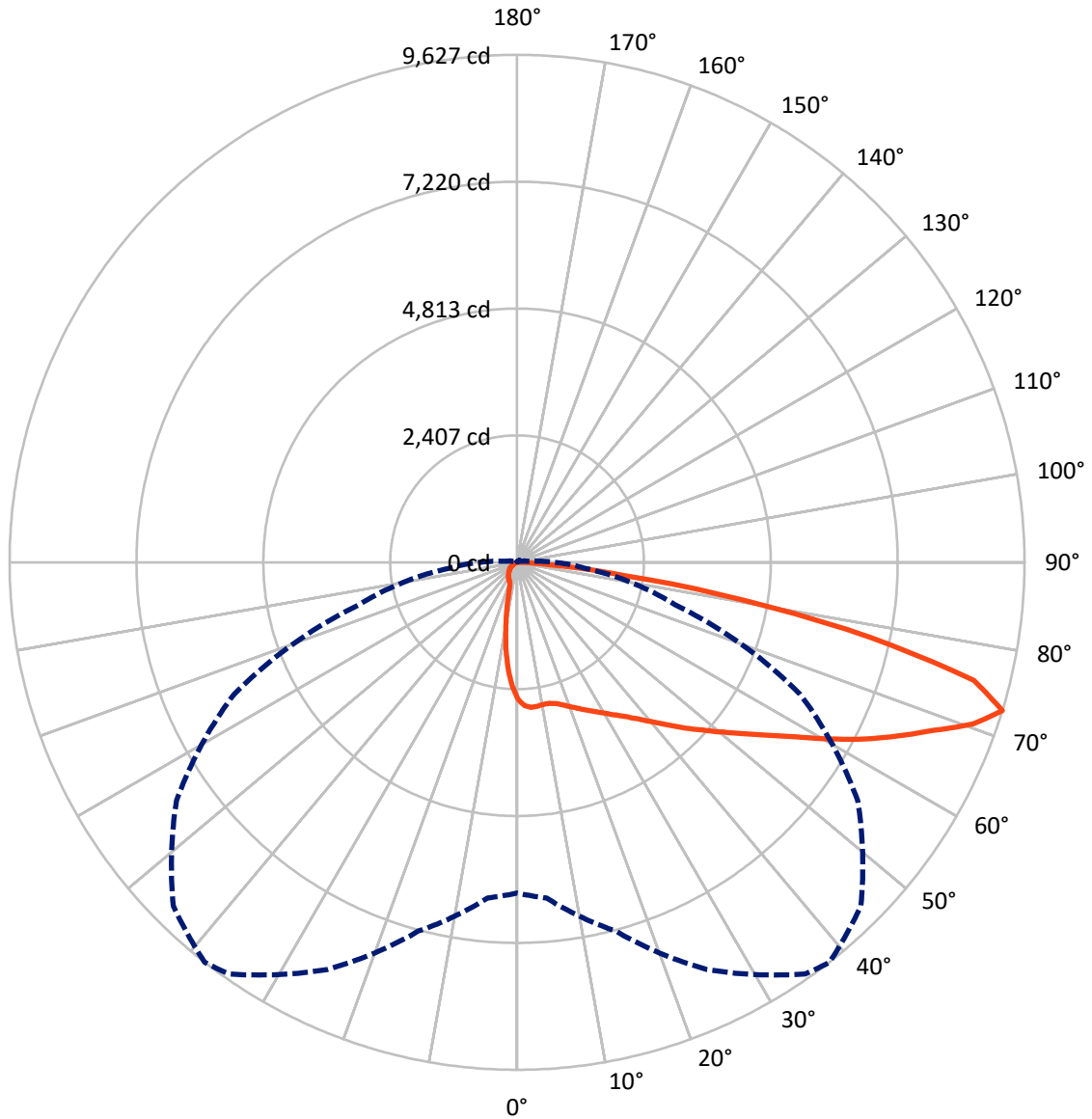
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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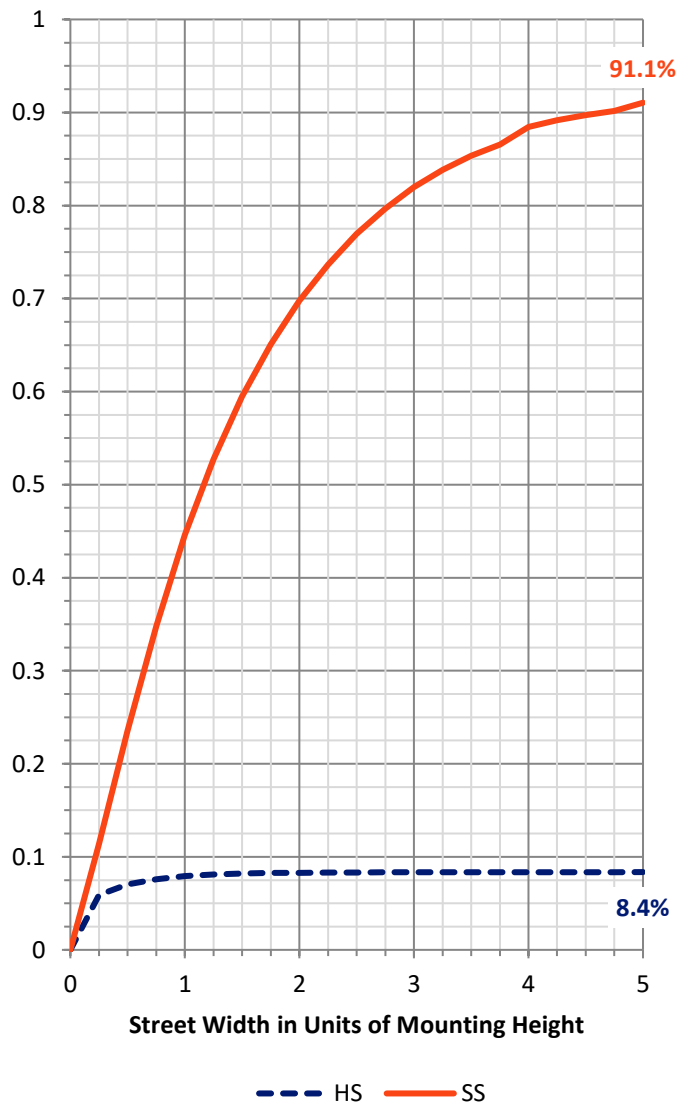
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.3	0.0	1189.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12943.7	0.0	12943.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	14133.0	0.0	14133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.6
10°-20°	541.6	3.8
20°-30°	861.4	6.1
30°-40°	1295.0	9.2
40°-50°	1975.6	14.0
50°-60°	2792.2	19.8
60°-70°	3502.3	24.8
70°-80°	2618.8	18.5
80°-90°	324.7	2.3
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°	14133.0	100.0
0°-180°	14133.0	100.0

Coefficient of Utilization



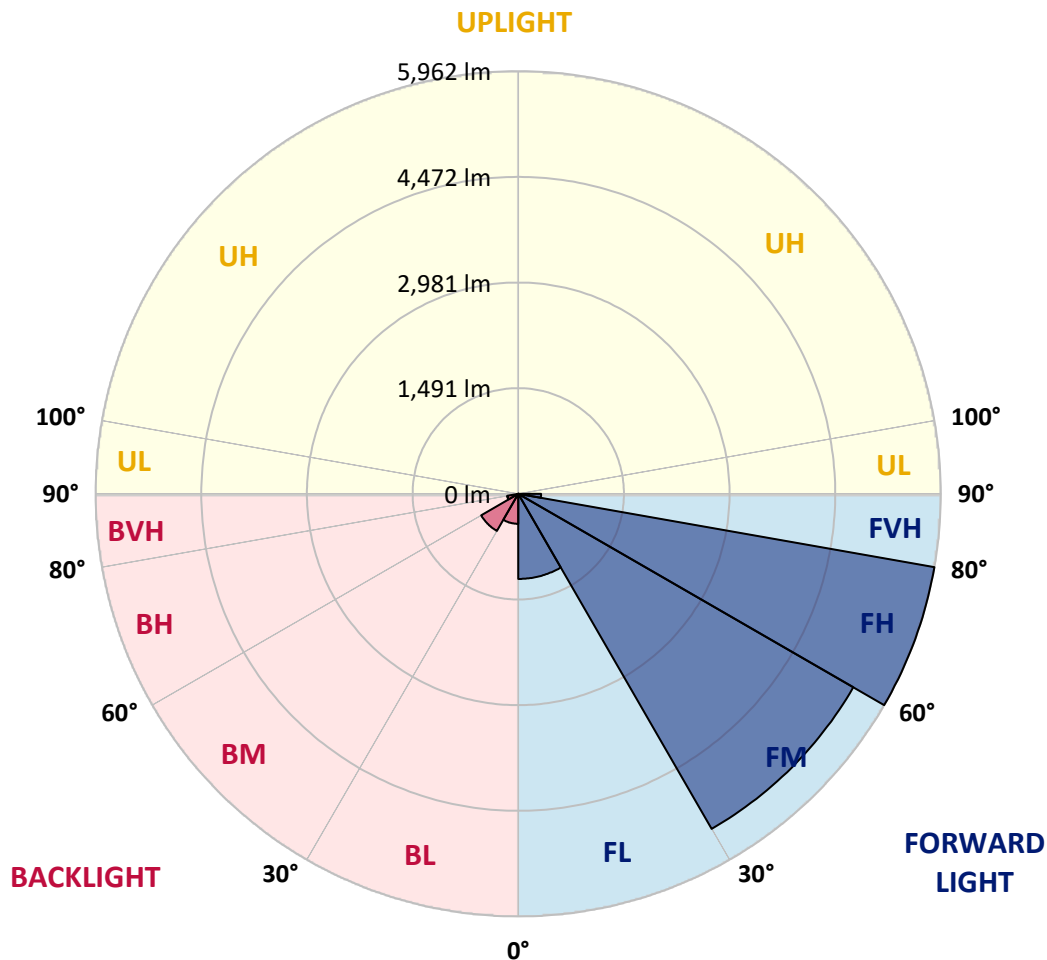
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.0	8.5			
FM (30°-60°)	5458.8	38.6			
FH (60°-80°)	5962.2	42.2			G3/7500
FVH (80°-90°)	321.7	2.3			G3/500
BL (0°-30°)	423.5	3.0	B1/500		
BM (30°-60°)	604.0	4.3	B1/1000		
BH (60°-80°)	158.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0
2.5°	2758.7	2759.2	2752.8	2742.2	2728.7	2721.7	2709.9	2691.2	2671.2	2635.4	2596.7
5°	2815.0	2815.0	2806.8	2792.7	2771.0	2764.5	2742.2	2712.3	2671.2	2613.1	2547.9
7.5°	2809.1	2810.3	2799.2	2784.5	2762.8	2756.9	2729.9	2696.4	2645.4	2574.9	2491.6
10°	2778.6	2781.6	2772.7	2765.7	2745.7	2739.3	2714.1	2680.6	2629.5	2554.4	2458.7
12.5°	2747.5	2750.4	2753.4	2759.8	2747.5	2745.2	2725.2	2697.0	2648.3	2570.3	2462.3
15°	2727.6	2733.4	2754.6	2779.8	2782.7	2780.4	2767.5	2741.1	2691.8	2610.8	2487.5
17.5°	2727.6	2736.9	2781.0	2829.1	2846.1	2847.9	2836.7	2799.7	2741.1	2654.2	2511.0
20°	2750.4	2763.4	2832.0	2900.1	2928.3	2928.3	2906.6	2854.9	2786.2	2693.5	2526.8
22.5°	2809.1	2826.2	2912.4	2991.1	3021.0	3014.6	2985.2	2910.1	2833.2	2738.1	2546.8
25°	2924.8	2937.7	3027.5	3106.7	3124.9	3110.2	3073.3	2977.0	2893.1	2798.6	2583.2
27.5°	3073.9	3075.6	3168.4	3235.3	3224.1	3214.1	3167.8	3060.9	2979.4	2884.9	2646.0
30°	3237.6	3237.6	3319.2	3370.3	3336.2	3328.0	3281.6	3162.5	3089.7	3002.2	2735.2
32.5°	3396.1	3403.1	3469.5	3501.7	3463.6	3455.4	3410.2	3291.0	3236.4	3181.3	2874.3
35°	3549.3	3554.6	3617.4	3635.0	3598.6	3600.9	3568.7	3467.7	3447.2	3440.1	3083.8
37.5°	3697.8	3699.0	3762.9	3774.1	3755.9	3775.8	3778.8	3689.6	3727.7	3784.6	3379.1
40°	3833.4	3834.5	3897.9	3926.7	3957.8	3983.6	4006.5	3959.0	4085.2	4217.2	3730.7
42.5°	3942.0	3954.3	4034.7	4089.3	4171.4	4220.8	4283.0	4280.6	4510.7	4709.1	4155.6
45°	4037.6	4058.8	4170.9	4266.5	4407.4	4486.1	4583.5	4659.8	4989.7	5256.7	4585.8
47.5°	4163.8	4183.8	4311.7	4468.4	4656.3	4759.6	4921.0	5085.9	5516.2	5794.4	5006.1
50°	4341.7	4332.9	4459.1	4683.9	4925.1	5060.7	5290.8	5537.9	6038.5	6262.8	5253.2
52.5°	4531.2	4527.7	4621.1	4918.0	5242.0	5400.5	5704.6	6005.1	6538.0	6585.6	5366.5
55°	4766.0	4740.8	4819.4	5185.1	5618.3	5788.5	6146.5	6467.6	6936.0	6767.5	5423.4
57.5°	5012.0	4970.3	5045.4	5482.7	6042.6	6244.0	6636.1	6918.4	7200.7	6892.0	5422.8
60°	5266.1	5216.8	5306.0	5854.8	6569.7	6802.7	7166.7	7223.0	7447.8	6954.8	5382.9
62.5°	5478.6	5449.2	5581.9	6252.8	7158.4	7387.3	7567.5	7500.0	7656.2	7003.5	5289.6
65°	5703.4	5705.1	5919.4	6717.0	7784.1	7938.5	7953.8	7859.3	7830.5	6993.5	4973.8
67.5°	6007.4	6035.6	6393.1	7347.4	8392.8	8511.9	8510.8	8248.4	7957.9	6596.7	4273.6
70°	6329.1	6395.4	6938.9	8068.8	9057.2	9178.1	9115.9	8496.1	7493.0	5334.2	3024.6
72.5°	6275.1	6390.1	7242.4	8523.7	9534.4	9626.6	9222.1	7887.4	5922.3	3100.3	1287.8
75°	4841.2	4974.4	6640.7	8072.9	9033.7	8951.0	7923.8	6137.7	3236.4	865.2	290.0
77.5°	2557.3	2628.4	4386.9	6150.1	7044.0	6870.8	5581.9	3404.9	986.7	214.2	130.3
80°	1339.4	1355.9	1911.7	3489.4	4347.5	4348.7	3308.0	1495.5	406.8	109.8	87.5
82.5°	717.3	731.3	1010.1	1612.4	2278.0	2064.9	1266.6	822.9	236.5	62.2	83.9
85°	172.6	175.5	572.9	736.6	895.7	639.8	376.2	690.8	64.0	36.4	68.1
87.5°	66.3	67.5	212.5	318.7	228.3	147.9	176.1	257.7	8.2	14.1	10.6
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°	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0	2599.0
2.5°	2573.2	2557.9	2520.4	2472.8	2430.6	2400.0	2354.3	2324.3	2304.4	2303.8	2296.1
5°	2508.0	2476.9	2395.9	2299.7	2212.2	2133.6	2040.8	1967.5	1912.9	1904.1	1885.3
7.5°	2438.2	2387.1	2262.7	2112.4	1965.7	1816.6	1643.5	1536.0	1443.9	1399.9	1395.2
10°	2395.3	2323.7	2147.1	1929.9	1699.8	1457.4	1230.8	1074.1	960.8	928.6	904.5
12.5°	2386.5	2292.0	2057.8	1758.5	1429.8	1109.3	858.7	692.0	601.6	572.9	565.2
15°	2395.3	2277.4	1982.7	1588.9	1156.3	787.1	576.4	479.5	445.5	437.3	436.7
17.5°	2400.6	2259.8	1897.6	1400.5	891.0	562.3	441.4	413.2	407.9	407.3	408.5
20°	2400.0	2232.8	1796.1	1190.3	662.7	442.0	399.1	393.3	392.1	392.7	392.1
22.5°	2395.9	2201.1	1684.5	973.7	500.7	395.0	380.9	377.4	376.8	376.8	376.8
25°	2403.6	2175.8	1561.9	766.6	412.6	373.3	364.5	361.6	361.0	361.0	359.8
27.5°	2431.1	2161.7	1427.5	589.9	372.7	353.9	346.9	346.3	344.5	344.0	345.1
30°	2475.8	2161.7	1280.1	459.0	348.6	334.0	328.7	327.5	326.9	326.3	326.9
32.5°	2554.4	2178.2	1119.3	381.5	325.8	311.7	308.1	309.9	308.1	308.1	308.1
35°	2696.4	2227.5	950.9	332.8	301.7	290.0	286.4	288.8	287.6	287.6	287.0
37.5°	2903.6	2319.0	781.2	303.5	280.6	268.2	263.5	267.1	265.9	265.9	265.3
40°	3156.0	2452.3	619.8	281.1	260.0	247.1	243.0	244.8	241.8	241.8	243.0
42.5°	3467.7	2621.3	479.0	259.4	239.5	227.1	224.8	223.0	217.8	214.8	215.4
45°	3814.0	2797.4	373.3	238.3	220.1	210.1	206.6	201.9	193.1	187.2	187.8
47.5°	4123.3	2933.0	303.5	217.8	202.5	194.9	189.6	180.8	167.9	160.8	161.4
50°	4285.9	2953.5	258.3	197.2	186.1	178.4	170.8	157.3	142.0	134.4	133.8
52.5°	4327.6	2857.3	224.8	178.4	169.6	160.8	150.8	132.7	115.6	107.4	106.2
55°	4342.8	2710.5	194.9	160.8	152.0	142.0	129.1	108.6	92.7	84.5	83.9
57.5°	4292.4	2491.6	171.4	145.0	134.4	122.1	106.2	86.9	71.6	65.2	65.2
60°	4180.3	2195.2	153.2	128.0	116.2	102.1	85.7	67.5	53.4	48.1	48.1
62.5°	3956.6	1811.3	136.2	110.3	99.2	84.5	69.3	51.1	37.6	34.6	35.2
65°	3534.6	1374.0	119.2	94.5	84.5	69.8	54.0	36.4	25.2	25.2	26.4
67.5°	2882.5	954.4	101.5	80.4	72.8	56.9	41.1	25.2	17.6	20.0	22.3
70°	1908.2	535.3	86.9	66.3	62.2	45.2	30.5	17.0	14.1	18.8	22.9
72.5°	720.2	208.4	72.8	53.4	54.0	34.6	21.7	12.9	12.9	20.5	27.0
75°	200.7	102.1	52.2	39.3	42.3	25.2	15.8	11.2	12.3	23.5	31.7
77.5°	118.0	75.1	34.0	22.9	28.8	17.6	10.6	8.8	10.6	20.0	30.5
80°	95.1	39.9	20.0	11.7	15.8	10.0	7.0	5.3	2.9	7.6	15.8
82.5°	95.1	24.1	9.4	8.2	8.2	5.3	3.5	2.3	0.6	0.0	4.1
85°	64.0	10.0	5.9	5.3	4.1	1.8	1.2	0.6	0.0	0.0	0.0
87.5°	10.6	4.1	2.3	1.2	0.6	0.0	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)