

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: P382972

Luminaire Tested: **GLEON-SA3B-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382972
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-SA3B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 13191.6 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

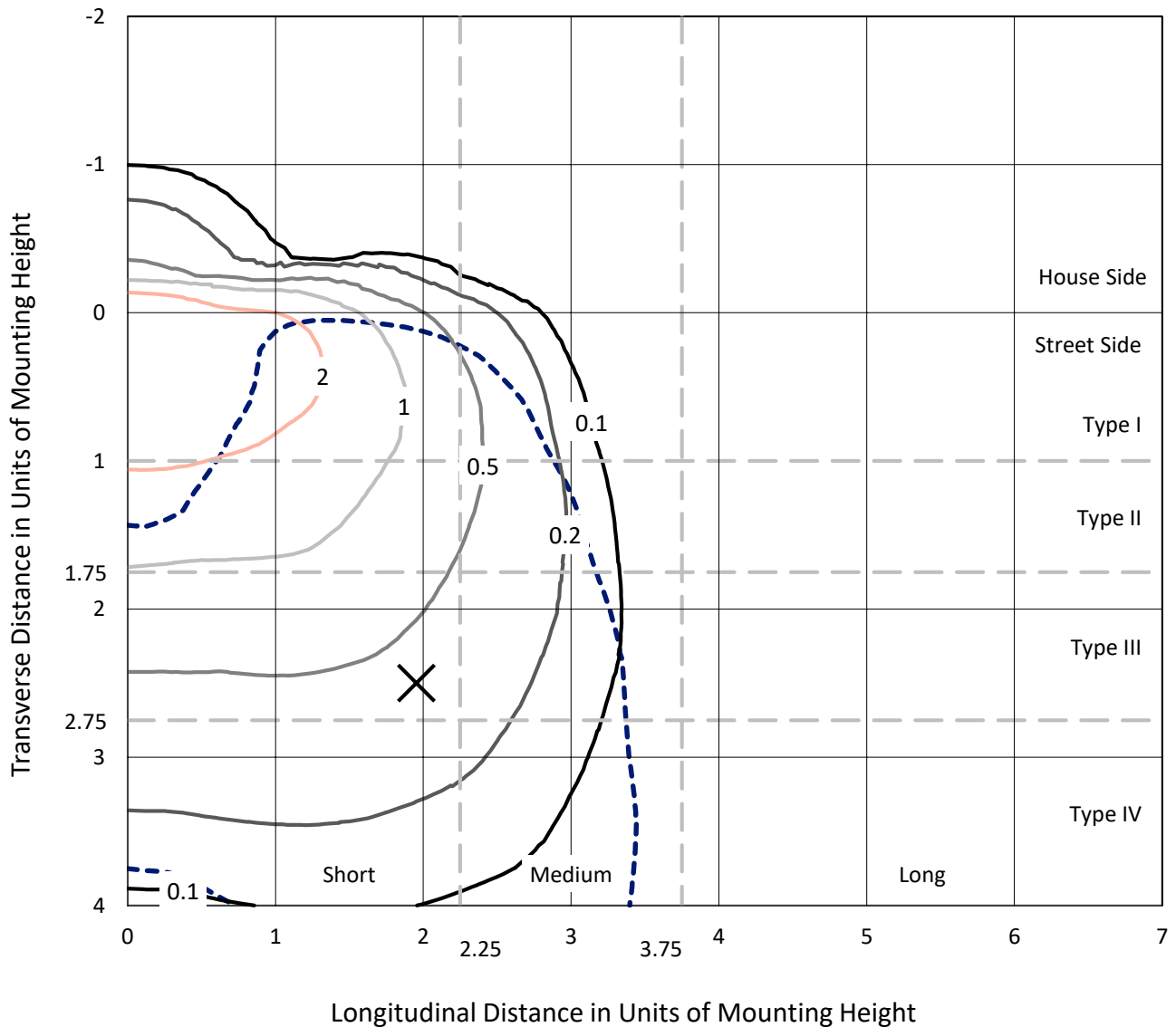
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

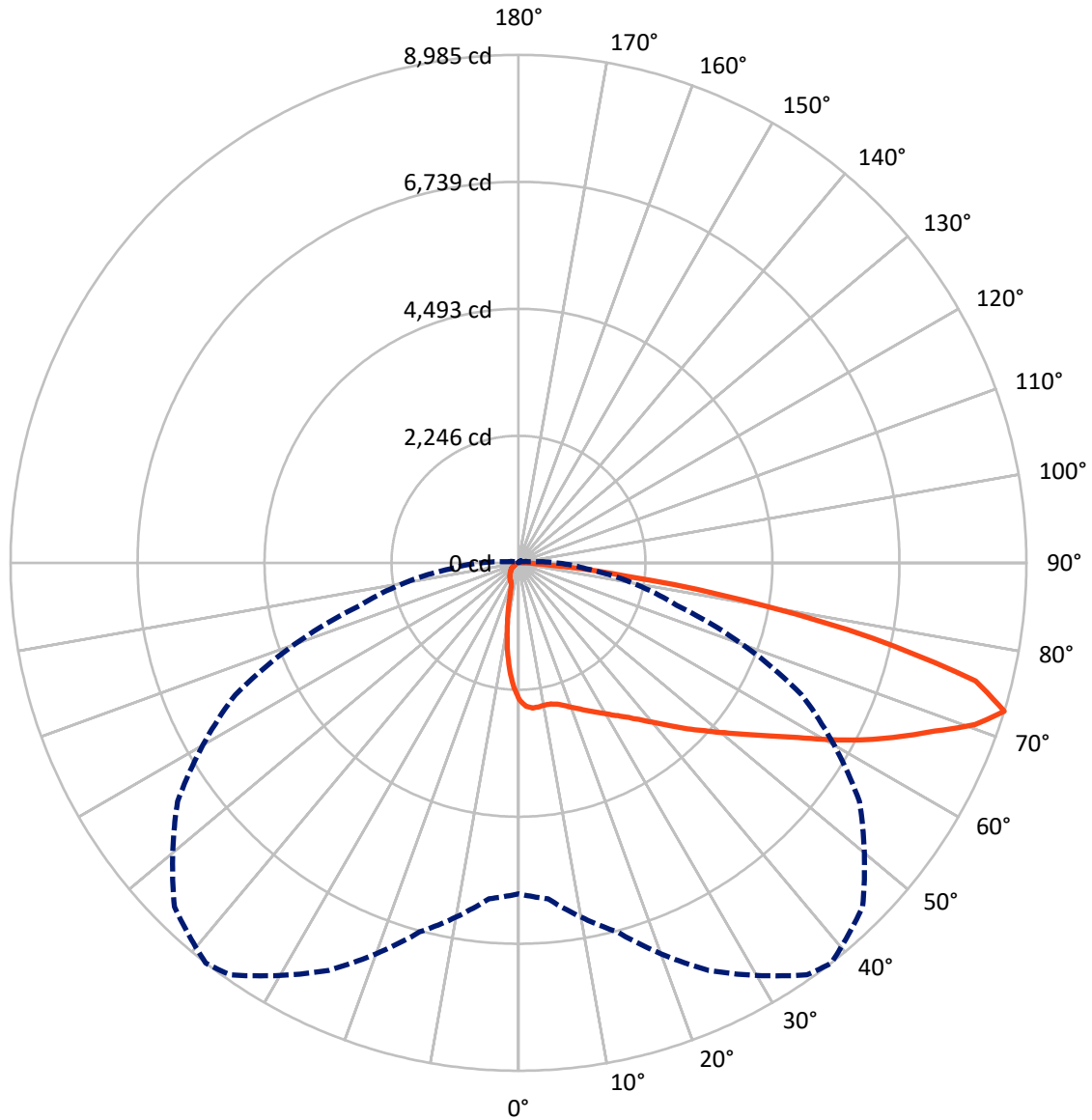
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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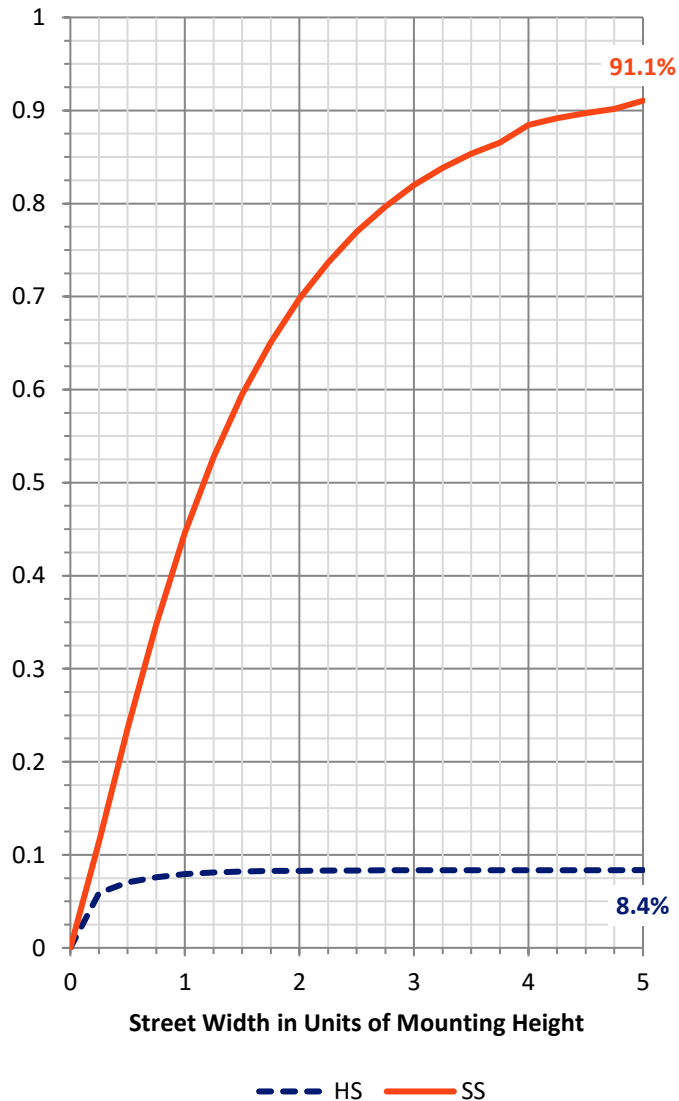
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.1	0.0	1110.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12081.5	0.0	12081.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	13191.6	0.0	13191.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.6
10°-20°	505.5	3.8
20°-30°	804.0	6.1
30°-40°	1208.7	9.2
40°-50°	1844.0	14.0
50°-60°	2606.2	19.8
60°-70°	3269.0	24.8
70°-80°	2444.3	18.5
80°-90°	303.1	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°	13191.6	100.0
0°-180°	13191.6	100.0

Coefficient of Utilization



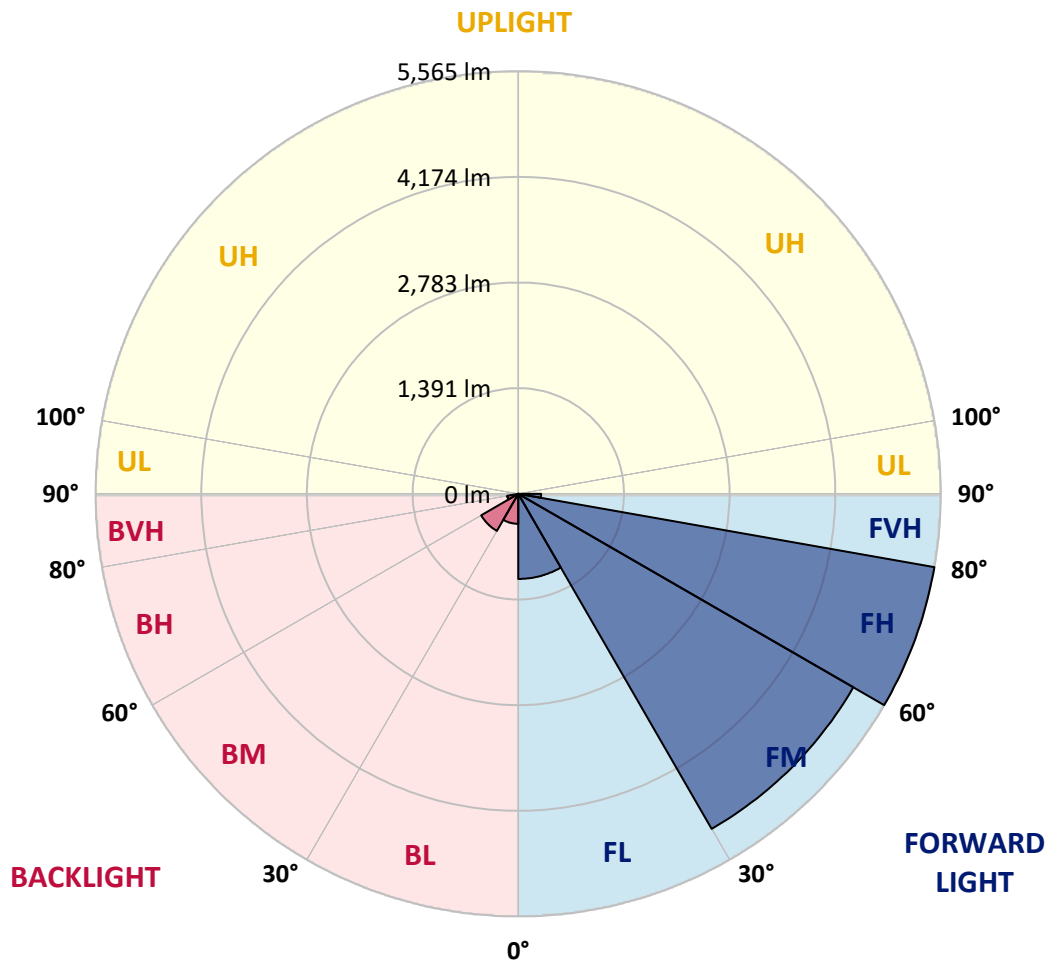
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.0	8.5			
FM (30°-60°)	5095.2	38.6			
FH (60°-80°)	5565.1	42.2			G3/7500
FVH (80°-90°)	300.3	2.3			G3/500
BL (0°-30°)	395.3	3.0	B1/500		
BM (30°-60°)	563.7	4.3	B1/1000		
BH (60°-80°)	148.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9
2.5°	2574.9	2575.4	2569.4	2559.6	2546.9	2540.4	2529.4	2511.9	2493.3	2459.8	2423.7
5°	2627.5	2627.5	2619.9	2606.7	2586.4	2580.4	2559.6	2531.7	2493.3	2439.1	2378.2
7.5°	2622.0	2623.1	2612.7	2599.0	2578.7	2573.3	2548.1	2516.9	2469.2	2403.4	2325.6
10°	2593.5	2596.3	2588.0	2581.5	2562.9	2556.8	2533.3	2502.0	2454.3	2384.3	2295.0
12.5°	2564.6	2567.3	2570.0	2576.0	2564.6	2562.3	2543.7	2517.4	2472.0	2399.0	2298.2
15°	2545.9	2551.3	2571.1	2594.6	2597.3	2595.2	2583.1	2558.5	2512.5	2436.8	2321.8
17.5°	2545.9	2554.7	2595.8	2640.7	2656.6	2658.2	2647.7	2613.3	2558.5	2477.4	2343.7
20°	2567.3	2579.3	2643.4	2707.0	2733.3	2733.3	2712.9	2664.8	2600.7	2514.1	2358.5
22.5°	2622.0	2638.0	2718.4	2791.8	2819.8	2813.7	2786.4	2716.3	2644.5	2555.7	2377.1
25°	2730.0	2742.0	2825.8	2899.8	2916.8	2903.1	2868.6	2778.7	2700.4	2612.2	2411.1
27.5°	2869.1	2870.8	2957.3	3019.8	3009.4	3000.0	2956.7	2857.1	2780.9	2692.7	2469.7
30°	3021.9	3021.9	3098.1	3145.7	3114.0	3106.3	3063.0	2951.8	2883.9	2802.3	2553.0
32.5°	3169.9	3176.5	3238.3	3268.5	3232.9	3225.2	3183.0	3071.8	3020.9	2969.4	2682.9
35°	3312.9	3317.8	3376.4	3392.9	3358.9	3361.1	3330.9	3236.8	3217.6	3211.0	2878.4
37.5°	3451.5	3452.6	3512.3	3522.7	3505.7	3524.3	3527.1	3443.8	3479.4	3532.5	3154.0
40°	3578.1	3579.1	3638.3	3665.2	3694.1	3718.3	3739.7	3695.3	3813.1	3936.3	3482.1
42.5°	3679.4	3690.9	3766.0	3816.9	3893.6	3939.6	3997.7	3995.5	4210.2	4395.4	3878.8
45°	3768.7	3788.4	3893.0	3982.4	4113.8	4187.2	4278.2	4349.4	4657.3	4906.6	4280.4
47.5°	3886.5	3905.1	4024.6	4170.8	4346.1	4442.6	4593.2	4747.2	5148.8	5408.4	4672.6
50°	4052.5	4044.2	4162.1	4371.8	4597.1	4723.6	4938.3	5169.0	5636.3	5845.6	4903.3
52.5°	4229.4	4226.2	4313.3	4590.5	4892.9	5040.8	5324.6	5605.1	6102.6	6146.9	5009.0
55°	4448.6	4425.0	4498.4	4839.8	5244.1	5403.0	5737.1	6036.8	6474.0	6316.7	5062.2
57.5°	4678.1	4639.2	4709.3	5117.5	5640.1	5828.0	6194.0	6457.6	6721.1	6432.9	5061.7
60°	4915.3	4869.3	4952.6	5464.8	6132.1	6349.6	6689.4	6741.9	6951.8	6491.5	5024.4
62.5°	5113.6	5086.2	5210.1	5836.3	6681.6	6895.3	7063.5	7000.5	7146.2	6537.0	4937.3
65°	5323.5	5325.2	5525.1	6269.7	7265.6	7409.7	7424.0	7335.8	7308.9	6527.7	4642.6
67.5°	5607.3	5633.6	5967.2	6858.1	7833.8	7945.0	7943.9	7699.0	7427.8	6157.3	3988.9
70°	5907.5	5969.5	6476.8	7531.4	8454.0	8566.8	8508.8	7930.2	6993.9	4978.9	2823.1
72.5°	5857.1	5964.5	6760.0	7956.0	8899.4	8985.3	8607.9	7362.1	5527.9	2893.8	1202.0
75°	4518.8	4643.1	6198.4	7535.2	8432.0	8354.8	7396.0	5728.9	3020.9	807.6	270.6
77.5°	2387.0	2453.3	4094.7	5740.4	6574.8	6413.1	5210.1	3178.1	920.9	200.0	121.7
80°	1250.2	1265.5	1784.4	3257.0	4057.9	4059.0	3087.7	1395.9	379.7	102.5	81.6
82.5°	669.5	682.6	942.8	1504.9	2126.3	1927.4	1182.2	768.1	220.8	58.0	78.3
85°	161.1	163.8	534.7	687.6	836.1	597.1	351.2	644.8	59.7	34.0	63.5
87.5°	61.9	63.0	198.3	297.4	213.1	138.1	164.3	240.5	7.6	13.1	9.9
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°	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9
2.5°	2401.8	2387.6	2352.5	2308.1	2268.7	2240.2	2197.4	2169.5	2150.9	2150.3	2143.2
5°	2341.0	2311.9	2236.4	2146.5	2064.9	1991.5	1904.9	1836.5	1785.5	1777.2	1759.7
7.5°	2275.8	2228.2	2112.0	1971.7	1834.8	1695.6	1534.0	1433.7	1347.8	1306.6	1302.2
10°	2235.8	2168.9	2004.0	1801.3	1586.6	1360.3	1148.9	1002.5	896.8	866.7	844.3
12.5°	2227.6	2139.4	1920.8	1641.4	1334.5	1035.4	801.5	645.9	561.5	534.7	527.6
15°	2235.8	2125.7	1850.6	1483.0	1079.3	734.7	538.0	447.6	415.8	408.1	407.6
17.5°	2240.7	2109.2	1771.2	1307.1	831.7	524.8	412.0	385.7	380.7	380.2	381.3
20°	2240.2	2084.1	1676.4	1111.1	618.5	412.5	372.5	367.0	366.0	366.5	366.0
22.5°	2236.4	2054.4	1572.4	908.9	467.4	368.7	355.6	352.3	351.8	351.8	351.8
25°	2243.4	2030.9	1457.9	715.5	385.1	348.4	340.2	337.5	336.9	336.9	335.8
27.5°	2269.2	2017.7	1332.4	550.6	347.9	330.3	323.8	323.2	321.6	321.0	322.1
30°	2310.9	2017.7	1194.9	428.4	325.4	311.7	306.8	305.7	305.2	304.6	305.2
32.5°	2384.3	2033.1	1044.7	356.1	304.1	290.9	287.7	289.2	287.7	287.7	287.7
35°	2516.9	2079.1	887.5	310.7	281.6	270.6	267.4	269.6	268.5	268.5	267.9
37.5°	2710.2	2164.5	729.2	283.3	261.9	250.4	246.0	249.3	248.2	248.2	247.6
40°	2945.8	2288.9	578.5	262.4	242.7	230.7	226.8	228.4	225.7	225.7	226.8
42.5°	3236.8	2446.7	447.0	242.1	223.5	212.0	209.8	208.2	203.3	200.5	201.0
45°	3560.0	2611.0	348.4	222.5	205.4	196.1	192.8	188.5	180.3	174.8	175.3
47.5°	3848.7	2737.6	283.3	203.3	189.0	181.9	177.0	168.7	156.7	150.1	150.6
50°	4000.4	2756.8	241.1	184.1	173.6	166.6	159.4	146.8	132.6	125.5	124.9
52.5°	4039.4	2666.9	209.8	166.6	158.4	150.1	140.8	123.8	108.0	100.2	99.1
55°	4053.5	2530.0	181.9	150.1	141.9	132.6	120.5	101.4	86.5	78.9	78.3
57.5°	4006.5	2325.6	159.9	135.4	125.5	113.9	99.1	81.0	66.8	60.8	60.8
60°	3901.8	2048.9	143.0	119.4	108.4	95.3	80.0	63.0	49.8	44.9	44.9
62.5°	3693.1	1690.7	127.1	103.0	92.6	78.9	64.6	47.7	35.0	32.3	32.9
65°	3299.2	1282.6	111.2	88.2	78.9	65.2	50.4	34.0	23.6	23.6	24.7
67.5°	2690.5	890.8	94.7	75.1	67.9	53.1	38.4	23.6	16.4	18.6	20.8
70°	1781.1	499.7	81.0	61.9	58.0	42.2	28.5	15.9	13.1	17.5	21.3
72.5°	672.2	194.5	67.9	49.8	50.4	32.3	20.3	12.0	12.0	19.2	25.2
75°	187.3	95.3	48.7	36.7	39.4	23.6	14.8	10.4	11.6	21.9	29.6
77.5°	110.1	70.1	31.8	21.3	26.8	16.4	9.9	8.2	9.9	18.6	28.5
80°	88.8	37.3	18.6	11.0	14.8	9.3	6.6	4.9	2.7	7.1	14.8
82.5°	88.8	22.5	8.8	7.6	7.6	4.9	3.3	2.2	0.6	0.0	3.8
85°	59.7	9.3	5.5	4.9	3.8	1.7	1.1	0.6	0.0	0.0	0.0
87.5°	9.9	3.8	2.2	1.1	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)