

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: P647961

Luminaire Tested: **GALN-SA5A-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14040 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

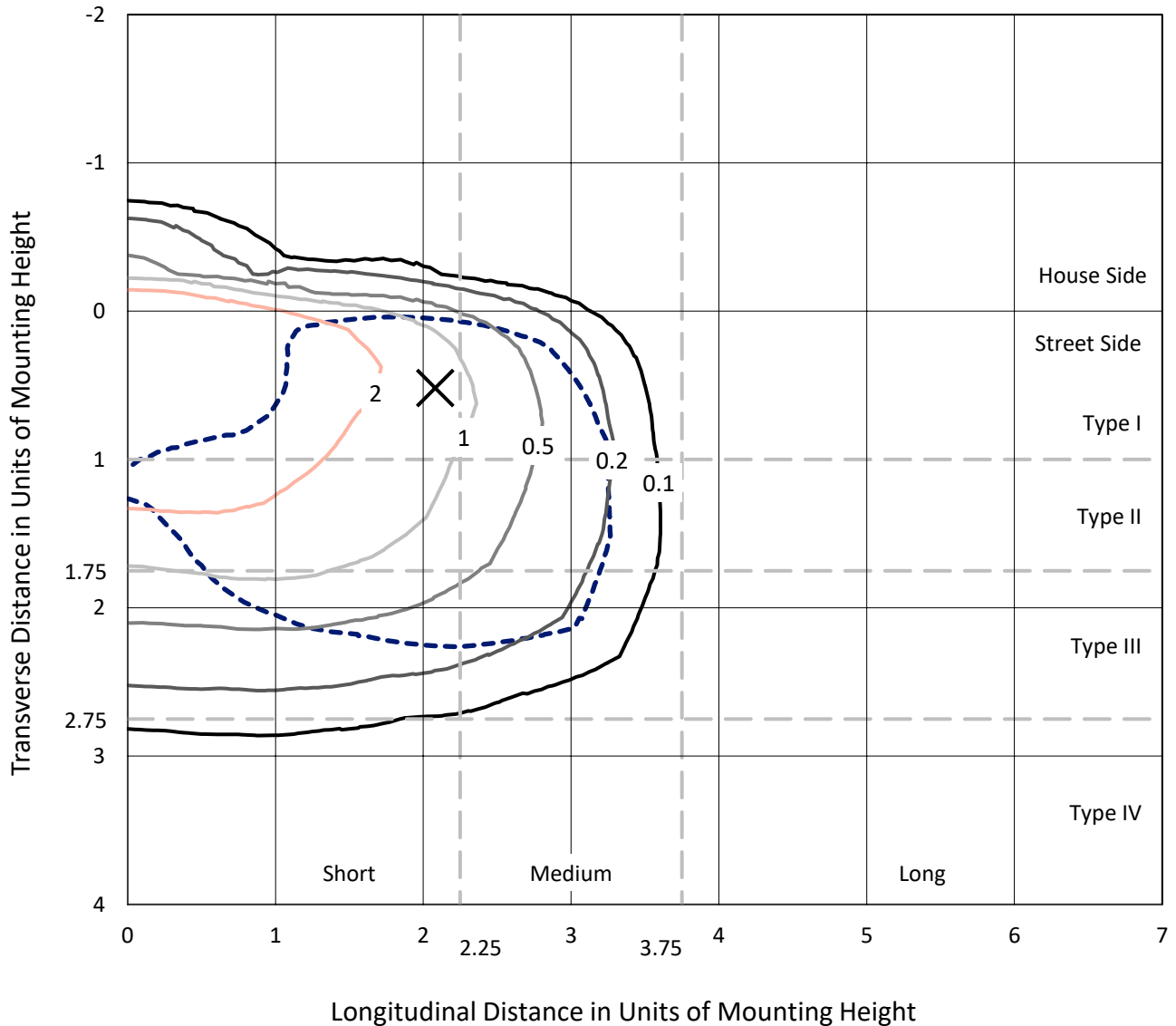
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

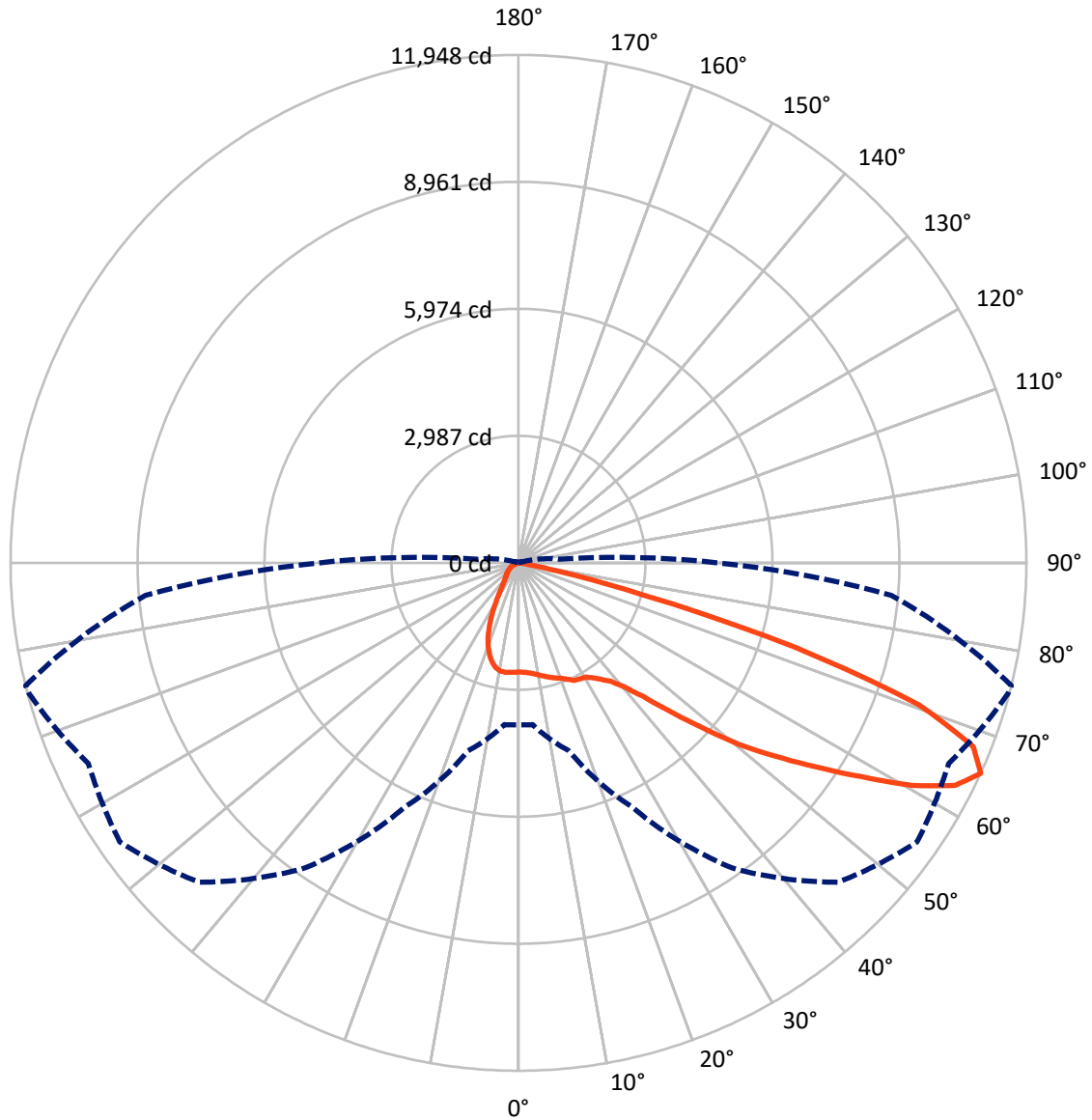
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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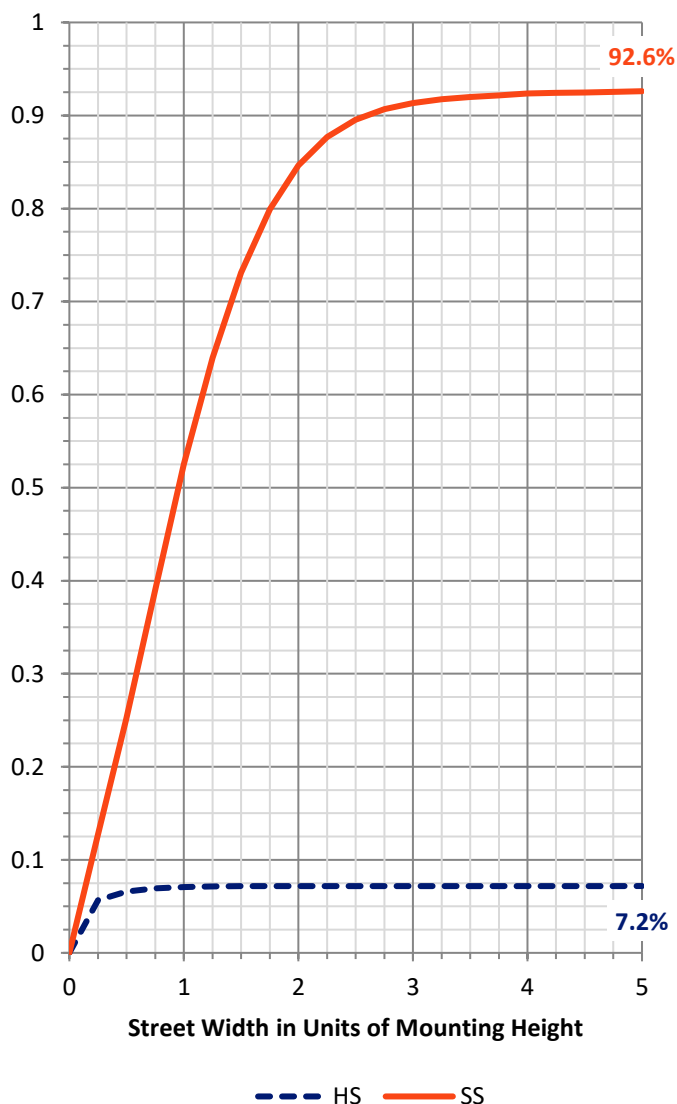
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.0	0.0	1014.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13026.0	0.0	13026.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	14040.0	0.0	14040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.5
10°-20°	471.1	3.4
20°-30°	759.1	5.4
30°-40°	1319.9	9.4
40°-50°	2181.1	15.5
50°-60°	3369.3	24.0
60°-70°	4114.4	29.3
70°-80°	1561.5	11.1
80°-90°	52.1	0.4
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°	14040.0	100.0
0°-180°	14040.0	100.0

Coefficient of Utilization



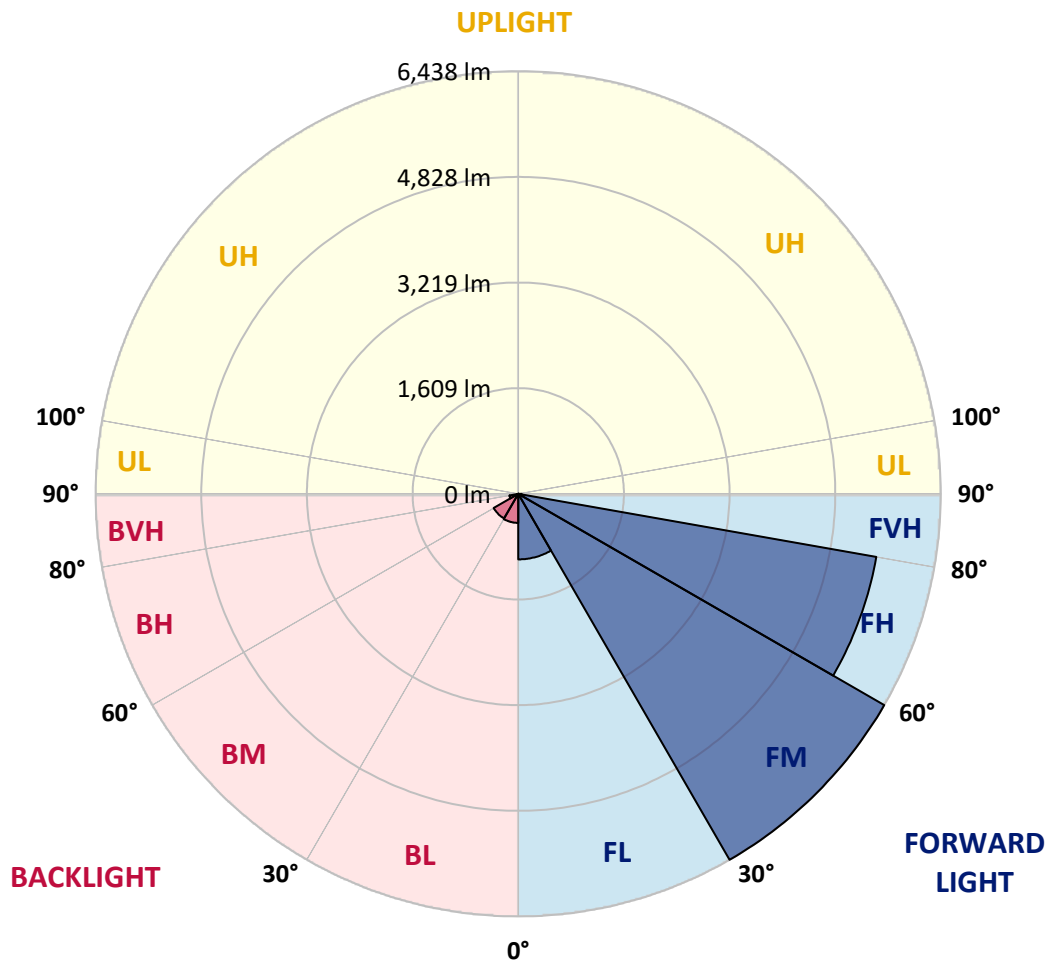
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.8	7.1			
FM (30°-60°)	6437.5	45.9			
FH (60°-80°)	5538.3	39.4			G3/7500
FVH (80°-90°)	51.4	0.4			G1/100
BL (0°-30°)	443.0	3.2	B1/500		
BM (30°-60°)	432.7	3.1	B1/1000		
BH (60°-80°)	137.6	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4
2.5°	2454.4	2455.3	2461.3	2476.2	2498.9	2517.8	2533.6	2559.5	2577.2	2579.3	2585.2
5°	2284.9	2273.0	2284.9	2323.6	2358.2	2410.8	2475.2	2539.6	2597.1	2601.0	2628.8
7.5°	2094.5	2104.5	2123.3	2163.0	2228.3	2308.7	2401.9	2516.8	2625.9	2635.7	2690.3
10°	1901.2	1923.0	1953.7	2014.3	2105.4	2209.5	2336.4	2501.0	2671.4	2685.3	2779.5
12.5°	1722.8	1732.7	1770.4	1851.6	1964.7	2111.4	2286.8	2492.1	2722.0	2738.9	2874.6
15°	1586.0	1598.9	1631.6	1705.0	1830.9	2019.2	2246.2	2489.1	2771.6	2795.4	2969.8
17.5°	1560.3	1568.2	1582.1	1631.6	1741.6	1945.8	2209.5	2488.1	2819.1	2847.9	3058.0
20°	1666.3	1659.3	1645.5	1640.5	1701.0	1889.4	2182.8	2496.0	2864.8	2897.5	3151.2
22.5°	1932.0	1940.9	1859.6	1763.5	1743.7	1880.5	2178.8	2533.6	2937.1	2975.8	3255.3
25°	2496.0	2427.6	2300.7	2070.7	1897.3	1934.9	2223.4	2622.9	3021.4	3064.0	3349.4
27.5°	3119.5	3098.7	2901.4	2522.7	2199.6	2049.9	2302.7	2691.2	3049.2	3092.8	3403.0
30°	3732.1	3756.9	3530.9	3112.6	2638.7	2263.0	2377.0	2717.0	3073.9	3119.5	3471.4
32.5°	4300.1	4329.8	4131.6	3717.2	3156.2	2631.8	2504.9	2817.2	3178.0	3224.6	3585.4
35°	4747.2	4751.1	4601.5	4271.3	3721.2	3079.9	2781.5	2992.6	3318.7	3373.2	3706.3
37.5°	5157.5	5151.6	4976.1	4691.7	4192.0	3524.9	3129.4	3194.9	3479.3	3535.8	3880.8
40°	5461.8	5465.8	5409.3	5141.6	4631.2	3936.3	3405.0	3384.2	3748.9	3837.2	4134.6
42.5°	5665.1	5701.7	5729.5	5593.7	5183.3	4442.8	3828.2	3789.6	4216.8	4290.2	4493.4
45°	5829.6	5895.1	6033.8	6026.9	5713.6	5064.4	4409.2	4329.8	4880.0	4958.3	4950.4
47.5°	5949.5	6015.9	6245.9	6384.7	6212.2	5667.0	5139.7	5071.3	5672.0	5757.2	5454.9
50°	6011.0	6090.3	6383.7	6652.4	6601.8	6247.9	5972.3	5976.3	6628.6	6710.9	6039.7
52.5°	5867.3	5970.4	6457.1	6940.8	7038.9	6804.0	6752.5	6883.4	7480.1	7550.5	6568.1
55°	5408.3	5538.2	6356.9	7186.6	7545.5	7460.3	7638.6	7837.9	8410.8	8456.5	7110.3
57.5°	5117.9	5255.7	6061.6	7395.8	8154.1	8285.0	8567.5	8713.2	9371.4	9487.4	7732.8
60°	4873.1	4981.1	5818.7	7440.4	8772.7	9294.1	9568.7	9719.3	10557.0	10632.3	8417.8
62.5°	4465.6	4589.6	5408.3	7129.1	9083.9	10102.0	10671.0	10603.5	11473.8	11526.4	8838.1
65°	3810.4	3821.3	4575.7	6347.1	8762.8	10626.3	11445.1	11162.6	11912.0	11947.6	8805.4
67.5°	2843.9	2949.0	3520.0	4989.0	7401.8	10178.3	11695.9	11177.5	11635.5	11536.3	8106.6
70°	1831.8	1912.2	2386.0	3459.5	5336.9	8494.1	10864.2	10411.2	10212.0	9991.9	6635.5
72.5°	845.6	948.6	1417.5	1976.6	3165.1	6050.6	8819.2	8458.4	7350.2	6807.0	4217.8
75°	368.7	394.6	699.8	1042.8	1483.9	3199.8	5814.7	5250.7	3319.8	3032.2	1688.1
77.5°	225.0	241.9	366.8	559.1	582.9	1219.3	3132.4	2290.8	1026.0	905.0	458.0
80°	152.7	171.5	266.6	292.5	199.3	340.0	1175.7	611.6	207.2	198.3	98.1
82.5°	74.3	94.2	197.2	163.6	86.2	109.1	342.0	130.8	60.4	56.5	34.7
85°	10.9	18.9	111.0	107.0	38.7	25.8	60.4	32.7	20.8	19.8	15.9
87.5°	0.0	0.0	37.7	16.8	4.0	4.0	7.0	7.0	7.9	7.0	7.9
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°	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4	2568.4
2.5°	2588.2	2593.1	2574.3	2547.6	2518.8	2490.0	2449.4	2412.7	2390.9	2403.8	2372.1
5°	2634.8	2630.8	2581.2	2500.0	2391.9	2262.1	2133.2	2023.2	1987.5	1933.9	1928.0
7.5°	2699.2	2688.3	2583.2	2396.8	2153.0	1909.2	1671.2	1513.7	1423.4	1347.2	1349.1
10°	2789.4	2757.7	2560.4	2215.5	1814.0	1446.3	1142.9	934.7	844.5	815.8	793.0
12.5°	2882.6	2821.1	2497.0	1970.7	1412.5	988.3	694.9	568.0	512.5	494.6	492.7
15°	2965.8	2868.7	2386.0	1676.2	1027.0	631.4	473.8	432.2	425.2	426.3	425.2
17.5°	3048.1	2906.4	2232.3	1364.0	697.8	453.0	407.4	397.5	400.5	404.4	403.5
20°	3116.5	2914.3	2036.0	1040.8	493.7	397.5	382.7	380.6	383.6	386.6	386.6
22.5°	3190.9	2920.3	1803.1	720.7	403.5	369.7	361.8	361.8	365.7	369.7	370.8
25°	3246.4	2887.5	1524.6	517.4	355.9	343.0	339.0	340.0	344.0	345.9	345.0
27.5°	3255.3	2795.4	1229.2	396.5	323.1	310.3	306.3	310.3	305.3	308.3	306.3
30°	3263.2	2678.4	929.8	334.0	293.4	273.6	267.6	261.7	257.8	252.8	251.8
32.5°	3288.1	2540.6	679.0	300.4	265.7	243.8	230.0	213.1	200.2	196.3	195.3
35°	3298.9	2375.1	498.6	273.6	240.9	217.0	192.3	168.5	149.7	142.7	147.7
37.5°	3340.5	2214.5	386.6	253.8	219.1	189.3	157.6	127.9	110.0	106.1	108.1
40°	3425.8	2040.0	324.2	236.9	200.2	163.6	124.9	96.2	84.3	80.3	79.3
42.5°	3562.6	1866.5	288.5	221.0	181.4	137.8	98.1	75.3	65.5	62.5	62.5
45°	3729.1	1700.0	263.7	204.2	161.6	111.0	77.3	60.4	54.5	52.5	52.5
47.5°	3948.2	1554.3	242.9	187.4	139.8	88.2	62.5	52.5	48.5	49.6	50.6
50°	4170.3	1446.3	220.0	168.5	115.0	72.3	53.6	46.6	45.6	46.6	46.6
52.5°	4337.7	1382.8	189.3	142.7	90.2	60.4	47.6	43.6	42.6	40.6	40.6
55°	4563.8	1368.9	150.6	116.0	71.4	50.6	42.6	39.6	36.6	34.7	33.7
57.5°	4854.2	1384.8	116.0	90.2	55.5	41.7	37.7	32.7	28.7	24.7	24.7
60°	5034.6	1349.1	90.2	69.4	40.6	33.7	28.7	23.8	18.9	15.9	14.9
62.5°	4977.1	1198.5	71.4	51.5	28.7	24.7	18.9	15.9	10.9	7.9	7.0
65°	4680.8	967.5	57.5	35.7	20.8	14.9	9.9	9.9	4.9	1.0	0.0
67.5°	4096.9	716.7	45.6	23.8	11.9	7.0	4.9	3.0	0.0	0.0	0.0
70°	3334.6	517.4	35.7	14.9	7.0	4.9	2.0	1.0	0.0	0.0	0.0
72.5°	2117.3	296.4	27.7	8.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0
75°	818.8	116.0	18.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	231.9	54.5	10.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	60.4	23.8	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.7	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	1.0	0.0	0.0	0.0	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)