

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: P650821

Luminaire Tested: **GALN-SA3C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650821
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-SA3C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA 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: 13819.3 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

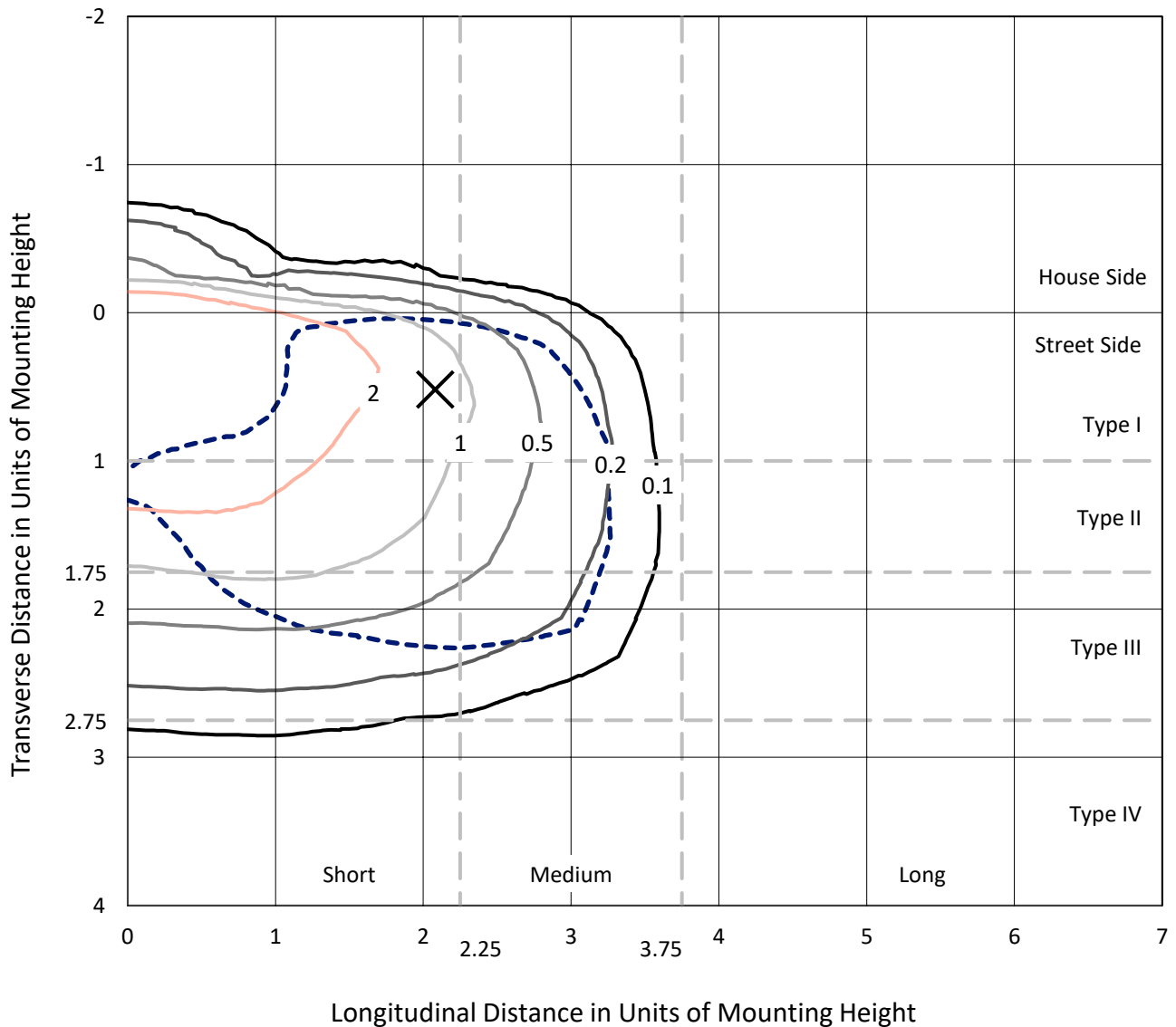
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

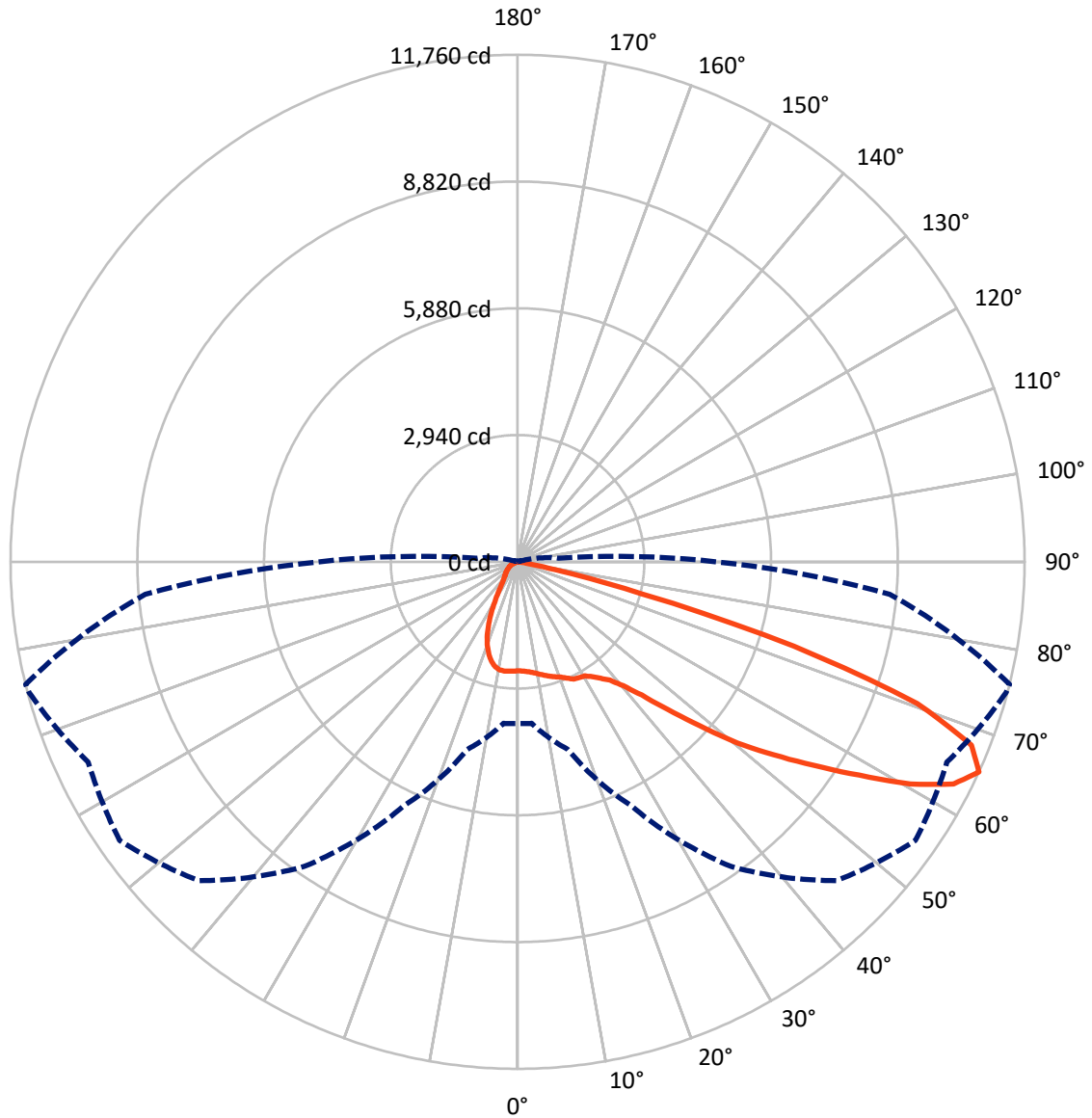
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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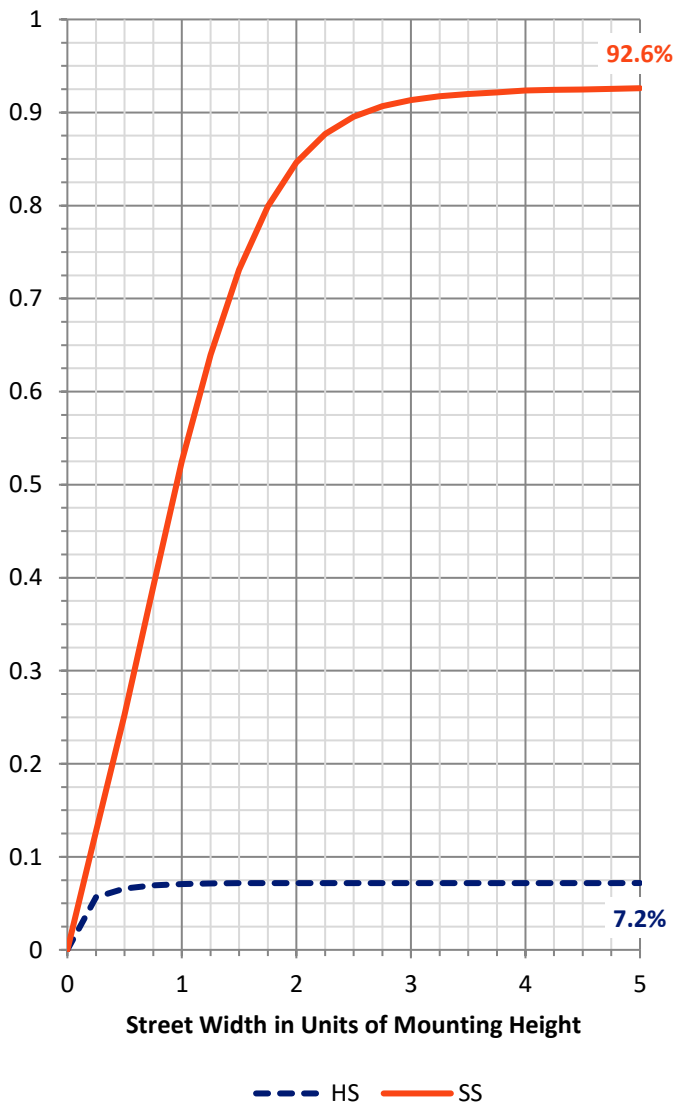
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.0	0.0	998.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12821.3	0.0	12821.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	13819.3	0.0	13819.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.5
10°-20°	463.7	3.4
20°-30°	747.2	5.4
30°-40°	1299.2	9.4
40°-50°	2146.8	15.5
50°-60°	3316.3	24.0
60°-70°	4049.7	29.3
70°-80°	1537.0	11.1
80°-90°	51.3	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°	13819.3	100.0
0°-180°	13819.3	100.0

Coefficient of Utilization

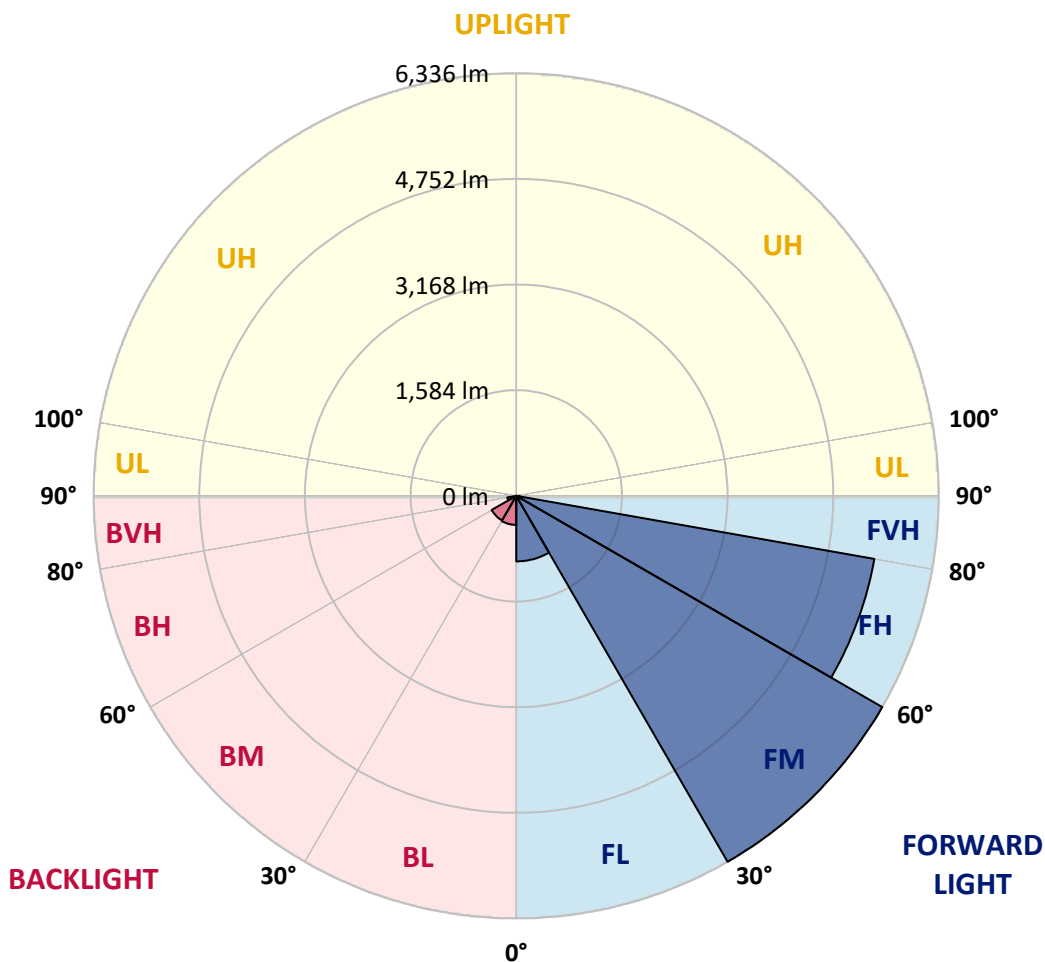


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.1	7.1			
FM (30°-60°)	6336.4	45.9			
FH (60°-80°)	5451.3	39.4			G3/7500
FVH (80°-90°)	50.6	0.4			G1/100
BL (0°-30°)	436.0	3.2	B1/500		
BM (30°-60°)	425.9	3.1	B1/1000		
BH (60°-80°)	135.4	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°	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0
2.5°	2415.8	2416.8	2422.6	2437.2	2459.7	2478.3	2493.8	2519.2	2536.8	2538.7	2544.6
5°	2248.9	2237.2	2248.9	2287.0	2321.2	2372.9	2436.3	2499.7	2556.3	2560.2	2587.5
7.5°	2061.6	2071.4	2089.9	2128.9	2193.3	2272.4	2364.1	2477.2	2584.6	2594.3	2648.0
10°	1871.4	1892.8	1923.0	1982.6	2072.3	2174.8	2299.7	2461.6	2629.5	2643.1	2735.8
12.5°	1695.7	1705.5	1742.6	1822.6	1933.8	2078.2	2250.9	2452.9	2679.3	2695.8	2829.5
15°	1561.1	1573.8	1606.0	1678.2	1802.1	1987.5	2210.9	2449.9	2728.0	2751.4	2923.1
17.5°	1535.8	1543.6	1557.2	1606.0	1714.3	1915.3	2174.8	2449.0	2774.9	2803.1	3009.9
20°	1640.1	1633.3	1619.6	1614.7	1674.3	1859.6	2148.4	2456.7	2819.7	2851.9	3101.7
22.5°	1901.6	1910.4	1830.4	1735.7	1716.2	1850.9	2144.5	2493.8	2890.9	2929.0	3204.1
25°	2456.7	2389.4	2264.6	2038.2	1867.4	1904.5	2188.5	2581.6	2973.9	3015.8	3296.8
27.5°	3070.5	3050.0	2855.8	2483.1	2165.1	2017.7	2266.5	2649.0	3001.2	3044.2	3349.5
30°	3673.4	3697.9	3475.3	3063.7	2597.3	2227.5	2339.7	2674.4	3025.6	3070.5	3416.8
32.5°	4232.5	4261.8	4066.7	3658.8	3106.6	2590.4	2465.6	2772.9	3128.0	3173.9	3529.0
35°	4672.5	4676.5	4529.1	4204.2	3662.7	3031.5	2737.8	2945.6	3266.6	3320.3	3648.1
37.5°	5076.4	5070.6	4897.9	4617.9	4126.2	3469.5	3080.2	3144.6	3424.6	3480.2	3819.8
40°	5376.0	5379.9	5324.3	5060.9	4558.4	3874.4	3351.5	3330.9	3690.1	3776.8	4069.6
42.5°	5576.0	5612.2	5639.4	5505.8	5101.8	4373.0	3768.1	3730.0	4150.6	4222.7	4422.7
45°	5738.0	5802.4	5939.0	5932.2	5623.9	4984.8	4339.8	4261.8	4803.3	4880.3	4872.6
47.5°	5856.1	5921.4	6147.8	6284.4	6114.6	5578.0	5059.0	4991.6	5582.9	5666.7	5369.2
50°	5916.5	5994.6	6283.4	6547.8	6498.1	6149.7	5878.5	5882.4	6524.4	6605.4	5944.9
52.5°	5775.1	5876.6	6355.6	6831.7	6928.3	6697.1	6646.3	6775.2	7362.5	7431.7	6464.9
55°	5323.4	5451.1	6257.0	7073.7	7426.9	7343.0	7518.6	7714.7	8278.6	8323.5	6998.5
57.5°	5037.4	5173.1	5966.3	7279.5	8026.0	8154.8	8432.8	8576.3	9224.1	9338.3	7611.3
60°	4796.5	4902.8	5727.3	7323.5	8634.8	9148.0	9418.3	9566.5	10391.1	10465.2	8285.5
62.5°	4395.5	4517.4	5323.4	7017.1	8941.2	9943.1	10503.2	10436.9	11293.5	11345.3	8699.2
65°	3750.5	3761.3	4503.7	6247.3	8625.0	10459.3	11265.2	10987.2	11724.8	11759.9	8667.0
67.5°	2799.3	2902.6	3464.7	4910.6	7285.4	10018.3	11512.1	11001.8	11452.6	11355.0	7979.2
70°	1803.0	1882.1	2348.5	3405.1	5253.1	8360.6	10693.5	10247.6	10051.5	9834.9	6531.2
72.5°	832.3	933.8	1395.2	1945.5	3115.3	5955.5	8680.6	8325.5	7234.7	6700.0	4151.5
75°	363.0	388.3	688.9	1026.4	1460.6	3149.5	5723.3	5168.2	3267.5	2984.6	1661.6
77.5°	221.5	238.1	361.0	550.3	573.7	1200.1	3083.2	2254.8	1009.9	890.8	450.8
80°	150.3	168.8	262.5	287.8	196.1	334.6	1157.1	602.0	203.9	195.1	96.6
82.5°	73.2	92.7	194.2	161.0	84.9	107.3	336.7	128.8	59.5	55.6	34.1
85°	10.8	18.5	109.2	105.4	38.0	25.4	59.5	32.2	20.5	19.5	15.6
87.5°	0.0	0.0	37.1	16.6	3.9	3.9	6.8	6.8	7.8	6.8	7.8
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°	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0	2528.0
2.5°	2547.5	2552.4	2533.8	2507.5	2479.2	2450.9	2410.9	2374.8	2353.4	2366.1	2334.8
5°	2593.4	2589.4	2540.7	2460.7	2354.3	2226.5	2099.6	1991.4	1956.3	1903.5	1897.7
7.5°	2656.8	2646.0	2542.6	2359.2	2119.2	1879.1	1645.0	1489.8	1401.1	1325.9	1327.9
10°	2745.5	2714.3	2520.2	2180.6	1785.5	1423.6	1124.9	920.1	831.2	803.0	780.5
12.5°	2837.3	2776.8	2457.7	1939.7	1390.3	972.8	684.0	559.1	504.4	486.9	484.9
15°	2919.3	2823.7	2348.5	1649.9	1010.8	621.5	466.3	425.4	418.6	419.6	418.6
17.5°	3000.2	2860.7	2197.2	1342.6	686.8	445.9	401.0	391.2	394.2	398.0	397.1
20°	3067.5	2868.5	2004.0	1024.5	485.9	391.2	376.6	374.7	377.6	380.6	380.6
22.5°	3140.7	2874.4	1774.8	709.3	397.1	363.9	356.2	356.2	360.0	363.9	364.9
25°	3195.4	2842.2	1500.6	509.3	350.3	337.6	333.7	334.6	338.6	340.5	339.5
27.5°	3204.1	2751.4	1209.9	390.3	318.1	305.4	301.5	305.4	300.5	303.4	301.5
30°	3211.9	2636.3	915.2	328.8	288.8	269.3	263.4	257.6	253.6	248.8	247.8
32.5°	3236.3	2500.7	668.3	295.6	261.5	240.0	226.4	209.7	197.0	193.2	192.2
35°	3247.1	2337.7	490.8	269.3	237.1	213.7	189.3	165.8	147.3	140.5	145.4
37.5°	3288.1	2179.7	380.6	249.8	215.6	186.4	155.2	125.9	108.3	104.4	106.4
40°	3372.0	2008.0	319.1	233.2	197.0	161.0	123.0	94.6	82.9	79.1	78.0
42.5°	3506.6	1837.2	283.9	217.6	178.5	135.7	96.6	74.2	64.4	61.5	61.5
45°	3670.5	1673.3	259.5	201.0	159.0	109.2	76.1	59.5	53.7	51.7	51.7
47.5°	3886.2	1529.9	239.0	184.4	137.6	86.9	61.5	51.7	47.8	48.8	49.8
50°	4104.7	1423.6	216.6	165.8	113.2	71.2	52.6	45.8	44.9	45.8	45.8
52.5°	4269.6	1361.1	186.4	140.5	88.8	59.5	46.8	42.9	42.0	40.0	40.0
55°	4492.0	1347.5	148.3	114.1	70.2	49.8	42.0	39.0	36.1	34.1	33.1
57.5°	4777.9	1363.0	114.1	88.8	54.7	41.0	37.1	32.2	28.3	24.4	24.4
60°	4955.5	1327.9	88.8	68.3	40.0	33.1	28.3	23.4	18.5	15.6	14.6
62.5°	4898.9	1179.6	70.2	50.7	28.3	24.4	18.5	15.6	10.8	7.8	6.8
65°	4607.2	952.3	56.6	35.2	20.5	14.6	9.8	9.8	4.9	1.0	0.0
67.5°	4032.5	705.4	44.9	23.4	11.7	6.8	4.9	2.9	0.0	0.0	0.0
70°	3282.2	509.3	35.2	14.6	6.8	4.9	1.9	1.0	0.0	0.0	0.0
72.5°	2084.1	291.7	27.3	8.7	4.9	1.9	0.0	0.0	0.0	0.0	0.0
75°	805.9	114.1	18.5	5.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	228.3	53.7	10.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.5	23.4	5.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.3	9.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.6	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	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)