

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: P651316

Luminaire Tested: **GALN-SA3D-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651316
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-SA3D-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 15206.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

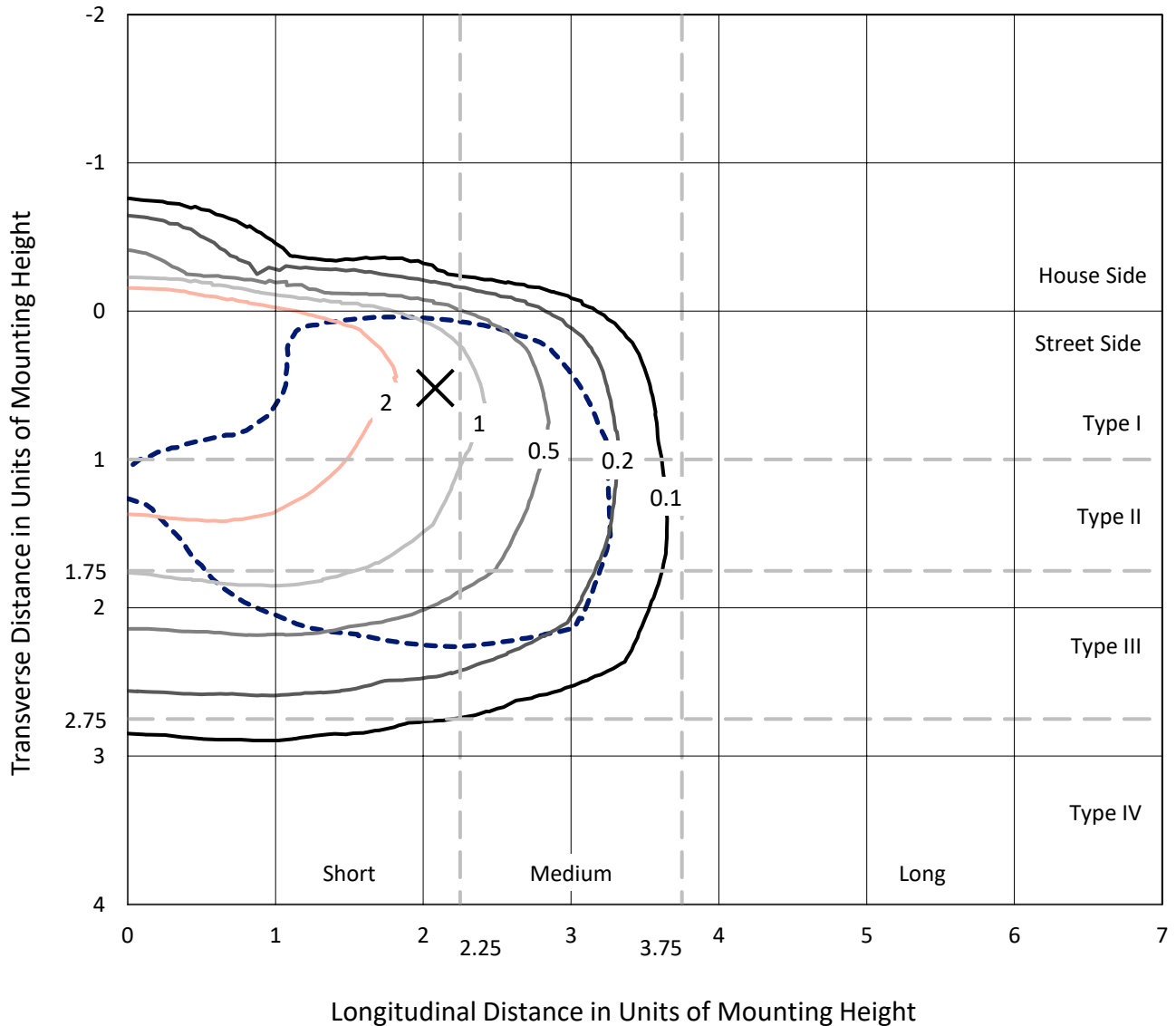
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651316
 CATALOG NUMBER: GALN-SA3D-840-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

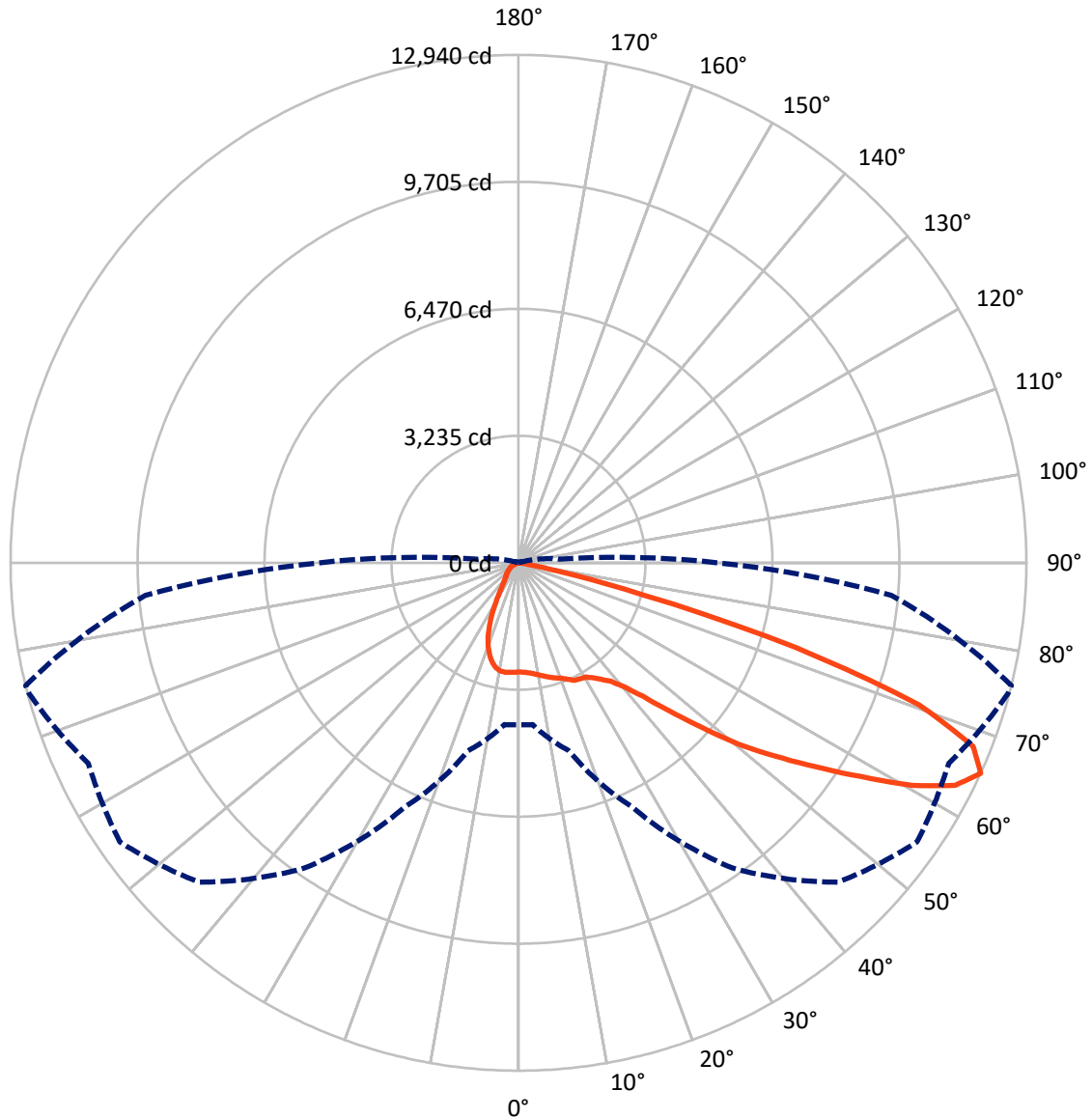
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P651316
CATALOG NUMBER: GALN-SA3D-840-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651316
 CATALOG NUMBER: GALN-SA3D-840-U-T3R-HSS

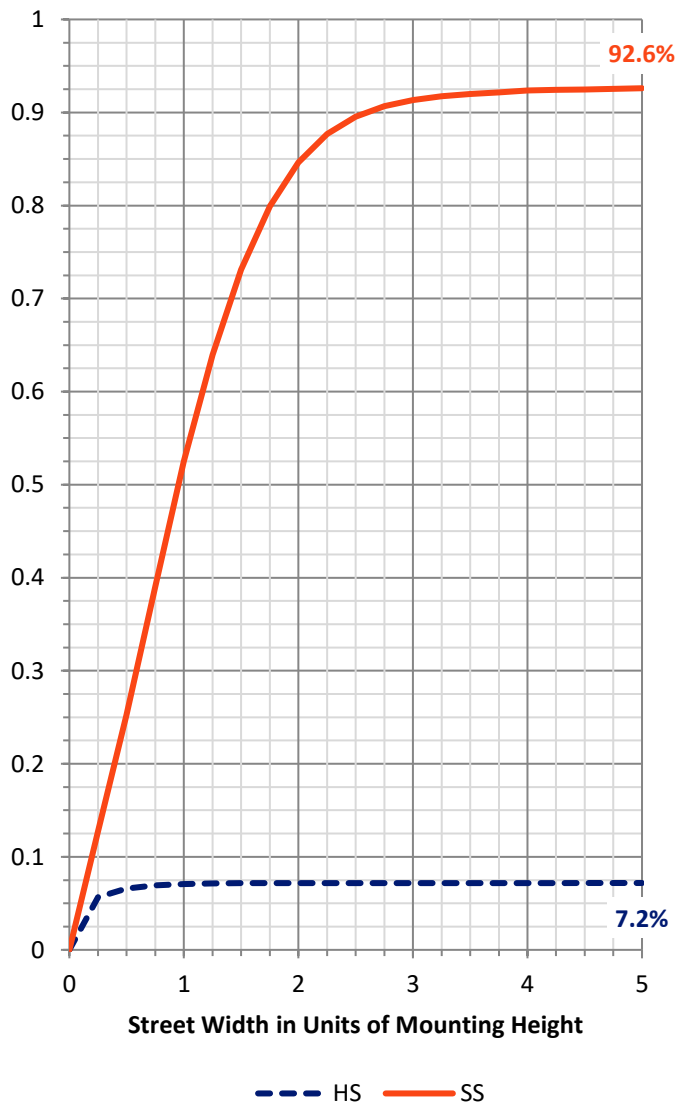
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.2	0.0	1098.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	14107.9	0.0	14107.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	15206.1	0.0	15206.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	1.5
10°-20°	510.2	3.4
20°-30°	822.2	5.4
30°-40°	1429.5	9.4
40°-50°	2362.2	15.5
50°-60°	3649.1	24.0
60°-70°	4456.1	29.3
70°-80°	1691.2	11.1
80°-90°	56.4	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°	15206.1	100.0
0°-180°	15206.1	100.0

Coefficient of Utilization

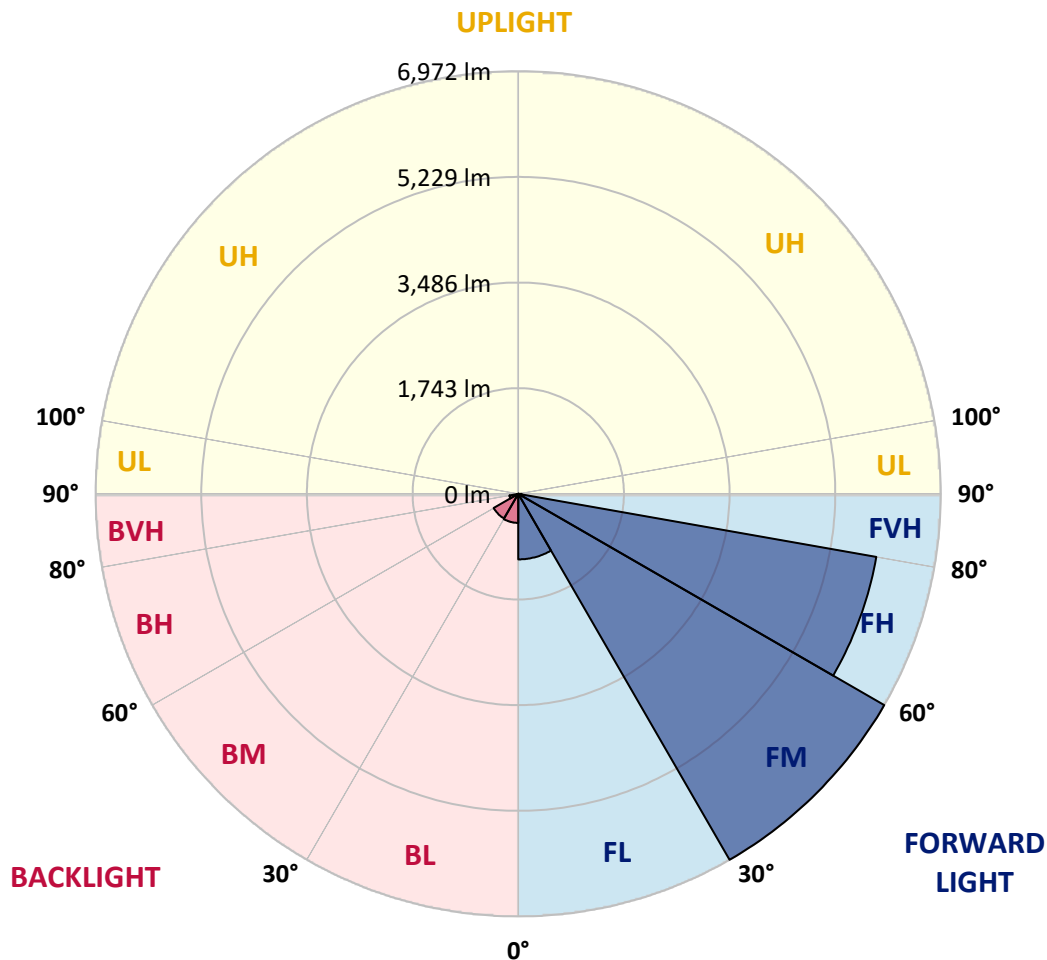


REPORT NUMBER: P651316
 CATALOG NUMBER: GALN-SA3D-840-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.7	7.1			
FM (30°-60°)	6972.2	45.9			
FH (60°-80°)	5998.3	39.4			G3/7500
FVH (80°-90°)	55.7	0.4			G1/100
BL (0°-30°)	479.8	3.2	B1/500		
BM (30°-60°)	468.6	3.1	B1/1000		
BH (60°-80°)	149.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





REPORT NUMBER: P651316

CATALOG NUMBER: GALN-SA3D-840-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7
2.5°	2658.2	2659.3	2665.7	2681.9	2706.5	2726.9	2744.1	2772.0	2791.4	2793.5	2799.9
5°	2474.6	2461.8	2474.6	2516.5	2554.1	2611.0	2680.8	2750.6	2812.8	2817.1	2847.2
7.5°	2268.5	2279.3	2299.6	2342.6	2413.4	2500.4	2601.3	2725.8	2843.9	2854.7	2913.7
10°	2059.2	2082.7	2116.0	2181.6	2280.3	2393.1	2530.5	2708.7	2893.4	2908.3	3010.4
12.5°	1865.9	1876.6	1917.5	2005.4	2127.9	2286.8	2476.7	2699.0	2948.1	2966.4	3113.5
15°	1717.7	1731.7	1767.1	1846.6	1982.9	2186.9	2432.8	2695.8	3001.8	3027.5	3216.5
17.5°	1689.8	1698.4	1713.5	1767.1	1886.3	2107.5	2393.1	2694.7	3053.3	3084.5	3312.0
20°	1804.7	1797.2	1782.2	1776.8	1842.3	2046.2	2364.1	2703.3	3102.7	3138.1	3412.9
22.5°	2092.4	2102.1	2014.0	1909.9	1888.5	2036.6	2359.8	2744.1	3181.1	3223.0	3525.7
25°	2703.3	2629.2	2491.8	2242.8	2054.9	2095.7	2408.0	2840.7	3272.3	3318.5	3627.7
27.5°	3378.6	3356.1	3142.4	2732.3	2382.3	2220.2	2494.0	2914.8	3302.4	3349.6	3685.7
30°	4042.1	4068.9	3824.1	3371.1	2857.9	2451.0	2574.5	2942.7	3329.2	3378.6	3759.7
32.5°	4657.3	4689.5	4474.7	4026.0	3418.3	2850.4	2713.0	3051.1	3442.0	3492.4	3883.2
35°	5141.5	5145.7	4983.6	4626.1	4030.2	3335.7	3012.5	3241.2	3594.4	3653.5	4014.2
37.5°	5585.9	5579.4	5389.5	5081.3	4540.2	3817.7	3389.3	3460.2	3768.4	3829.5	4203.1
40°	5915.5	5919.8	5858.6	5568.8	5015.8	4263.3	3687.8	3665.2	4060.3	4155.9	4478.0
42.5°	6135.6	6175.3	6205.4	6058.3	5613.8	4811.9	4146.2	4104.3	4567.1	4646.5	4866.6
45°	6313.8	6384.7	6535.0	6527.4	6188.2	5485.0	4775.4	4689.5	5285.3	5370.1	5361.5
47.5°	6443.7	6515.6	6764.8	6915.0	6728.3	6137.7	5566.6	5492.5	6143.1	6235.4	5908.0
50°	6510.3	6596.1	6913.9	7204.9	7150.2	6766.9	6468.4	6472.7	7179.1	7268.3	6541.4
52.5°	6354.6	6466.3	6993.4	7517.3	7623.6	7369.2	7313.3	7455.0	8101.4	8177.5	7113.7
55°	5857.6	5998.2	6884.9	7783.5	8172.2	8079.9	8273.1	8488.9	9109.5	9158.8	7700.9
57.5°	5542.9	5692.2	6565.0	8010.1	8831.4	8973.1	9279.1	9436.9	10149.8	10275.3	8375.1
60°	5277.8	5394.8	6302.0	8058.4	9501.3	10066.0	10363.4	10526.6	11433.8	11515.4	9116.9
62.5°	4836.5	4970.7	5857.6	7721.3	9838.4	10941.0	11557.3	11484.3	12426.9	12483.8	9572.2
65°	4126.9	4138.7	4955.7	6874.2	9490.6	11508.9	12395.8	12089.8	12901.4	12940.0	9536.8
67.5°	3080.2	3193.9	3812.3	5403.4	8016.5	11023.7	12667.3	12105.9	12601.9	12494.5	8779.9
70°	1984.0	2071.0	2584.1	3746.8	5780.3	9199.6	11766.6	11276.0	11060.2	10821.8	7186.7
72.5°	915.8	1027.4	1535.2	2140.8	3428.0	6553.2	9551.7	9161.0	7960.7	7372.4	4568.1
75°	399.4	427.3	758.0	1129.5	1607.2	3465.6	6297.7	5686.8	3595.4	3284.1	1828.3
77.5°	243.7	262.0	397.2	605.5	631.3	1320.5	3392.6	2481.1	1111.1	980.2	496.0
80°	165.3	185.7	288.8	316.7	215.8	368.3	1273.3	662.4	224.4	214.7	106.3
82.5°	80.5	102.0	213.6	177.1	93.4	118.1	370.4	141.7	65.5	61.2	37.6
85°	11.8	20.4	120.3	116.0	41.9	27.9	65.5	35.4	22.5	21.4	17.2
87.5°	0.0	0.0	40.8	18.2	4.3	4.3	7.5	7.5	8.6	7.5	8.6
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: P651316

CATALOG NUMBER: GALN-SA3D-840-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7	2781.7
2.5°	2803.1	2808.5	2788.2	2759.2	2728.0	2696.8	2652.9	2613.2	2589.5	2603.5	2569.1
5°	2853.6	2849.3	2795.7	2707.6	2590.6	2449.9	2310.4	2191.2	2152.5	2094.6	2088.1
7.5°	2923.4	2911.6	2797.8	2595.9	2331.8	2067.8	1810.1	1639.4	1541.7	1459.1	1461.2
10°	3021.1	2986.7	2773.1	2399.5	1964.7	1566.4	1237.9	1012.4	914.7	883.6	858.9
12.5°	3122.0	3055.4	2704.4	2134.3	1529.9	1070.3	752.6	615.2	555.1	535.7	533.6
15°	3212.2	3107.0	2584.1	1815.5	1112.2	683.9	513.2	468.1	460.5	461.6	460.5
17.5°	3301.3	3147.8	2417.7	1477.3	755.8	490.6	441.3	430.5	433.7	438.0	437.0
20°	3375.4	3156.4	2205.2	1127.3	534.6	430.5	414.4	412.3	415.5	418.7	418.7
22.5°	3455.9	3162.8	1952.9	780.5	437.0	400.5	391.8	391.8	396.2	400.5	401.5
25°	3516.1	3127.3	1651.2	560.4	385.4	371.5	367.2	368.3	372.6	374.7	373.6
27.5°	3525.7	3027.5	1331.2	429.4	350.0	336.1	331.8	336.1	330.7	333.9	331.8
30°	3534.3	2900.9	1007.0	361.8	317.8	296.3	289.9	283.4	279.1	273.7	272.7
32.5°	3561.1	2751.6	735.5	325.3	287.7	264.1	249.1	230.9	216.9	212.6	211.5
35°	3572.9	2572.4	540.0	296.3	260.9	235.1	208.3	182.5	162.1	154.6	160.0
37.5°	3618.0	2398.4	418.7	274.8	237.2	205.0	170.7	138.5	119.2	114.9	117.0
40°	3710.3	2209.5	351.0	256.6	216.9	177.1	135.2	104.1	91.2	87.0	85.9
42.5°	3858.5	2021.6	312.4	239.4	196.5	149.2	106.3	81.6	70.9	67.6	67.6
45°	4038.9	1841.2	285.6	221.2	175.0	120.3	83.8	65.5	59.0	56.9	56.9
47.5°	4276.1	1683.4	263.1	202.9	151.4	95.5	67.6	56.9	52.6	53.7	54.7
50°	4516.6	1566.4	238.3	182.5	124.6	78.4	57.9	50.5	49.4	50.5	50.5
52.5°	4698.1	1497.7	205.0	154.6	97.7	65.5	51.6	47.3	46.2	44.0	44.0
55°	4942.8	1482.6	163.2	125.6	77.3	54.7	46.2	43.0	39.7	37.6	36.5
57.5°	5257.4	1499.8	125.6	97.7	60.1	45.1	40.8	35.4	31.1	26.8	26.8
60°	5452.8	1461.2	97.7	75.2	44.0	36.5	31.1	25.7	20.4	17.2	16.1
62.5°	5390.6	1298.0	77.3	55.8	31.1	26.8	20.4	17.2	11.8	8.6	7.5
65°	5069.5	1047.8	62.2	38.7	22.5	16.1	10.8	10.8	5.4	1.1	0.0
67.5°	4437.2	776.2	49.4	25.7	12.9	7.5	5.4	3.2	0.0	0.0	0.0
70°	3611.6	560.4	38.7	16.1	7.5	5.4	2.2	1.1	0.0	0.0	0.0
72.5°	2293.2	321.0	30.0	9.7	5.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	886.8	125.6	20.4	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	251.2	59.0	11.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.5	25.7	6.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.1	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.2	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	1.1	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)