

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: P530661

Luminaire Tested: **GALN-SA5D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17007 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

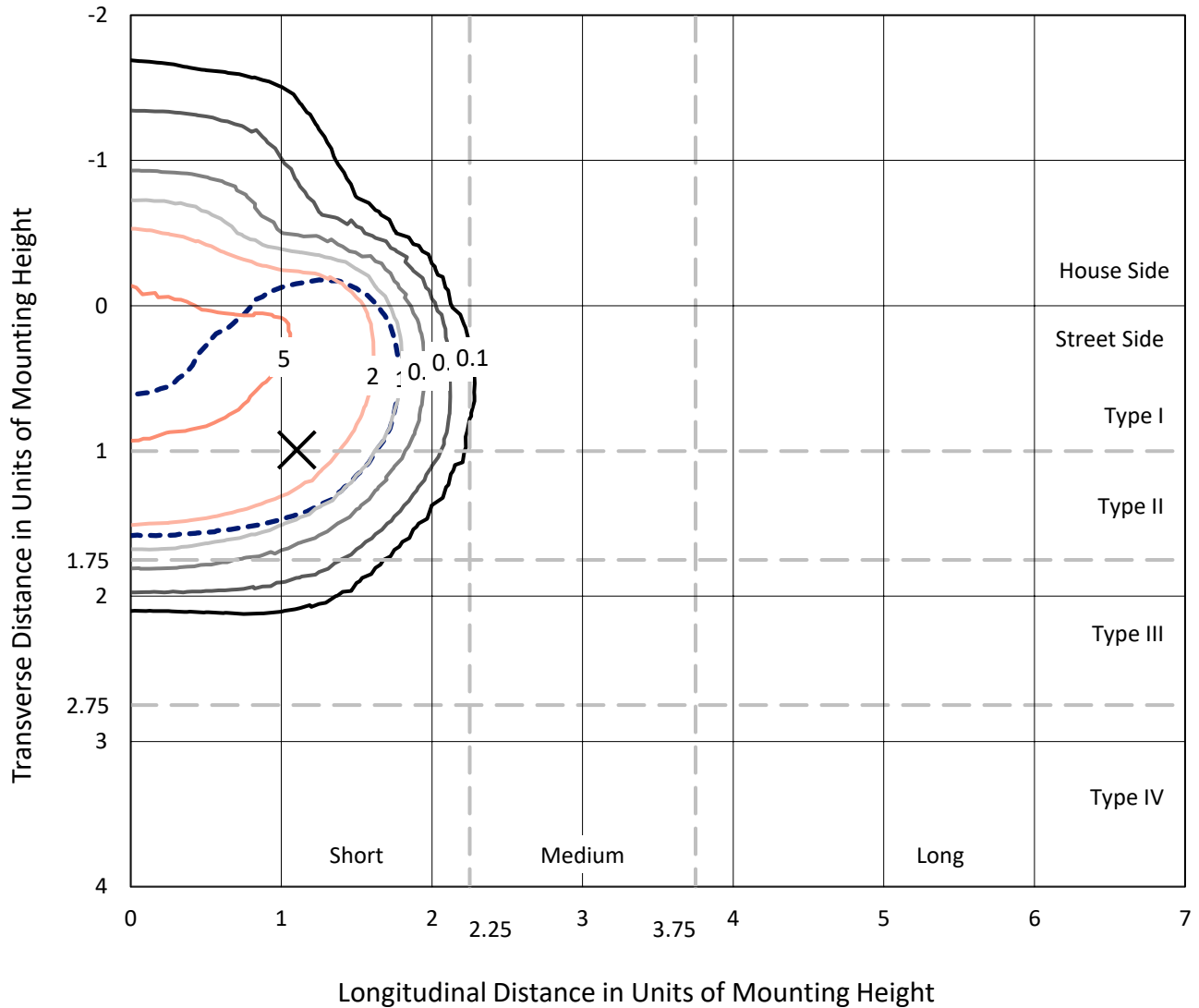
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530661
 CATALOG NUMBER: GALN-SA5D-827-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

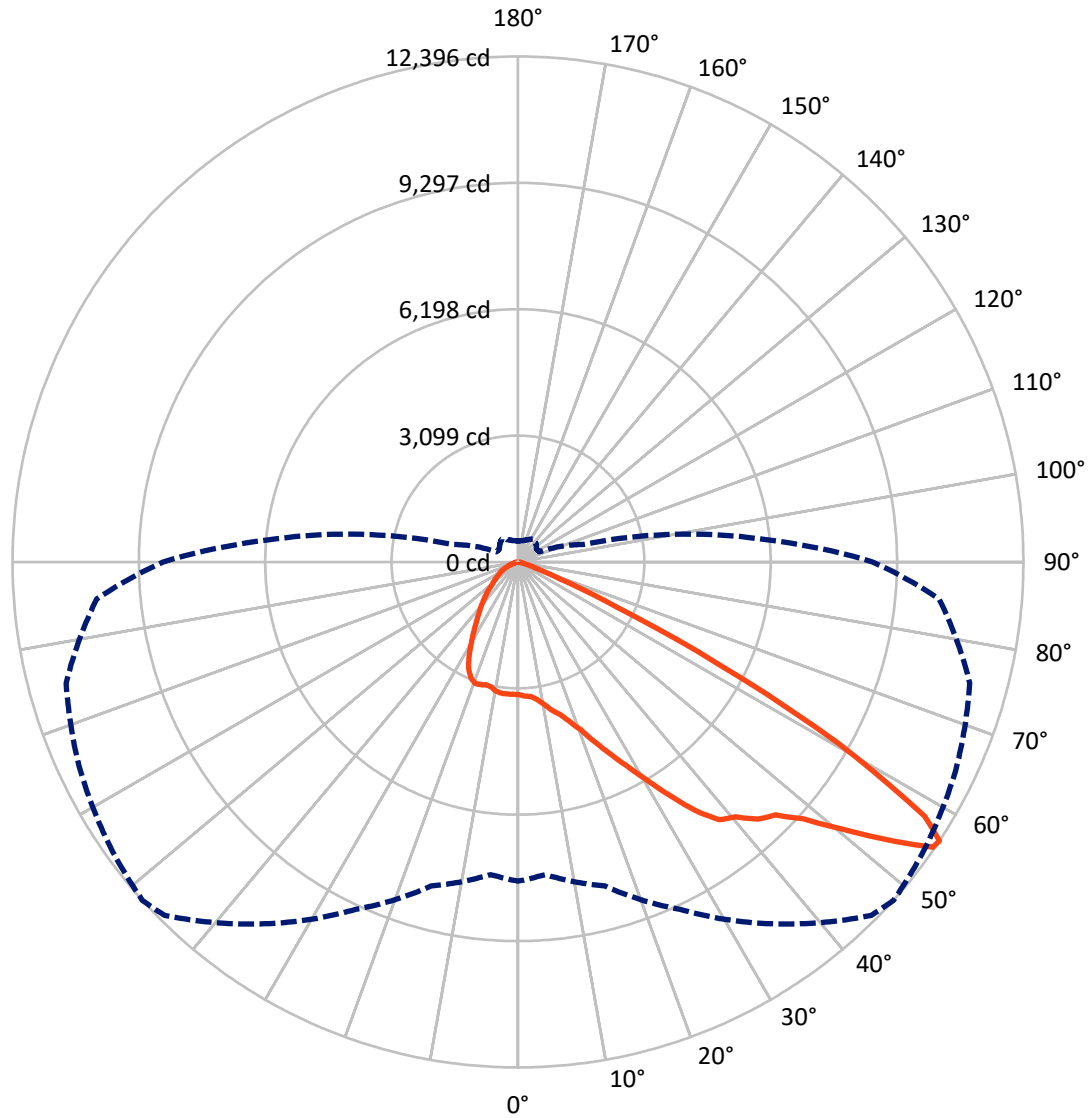
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P530661
CATALOG NUMBER: GALN-SA5D-827-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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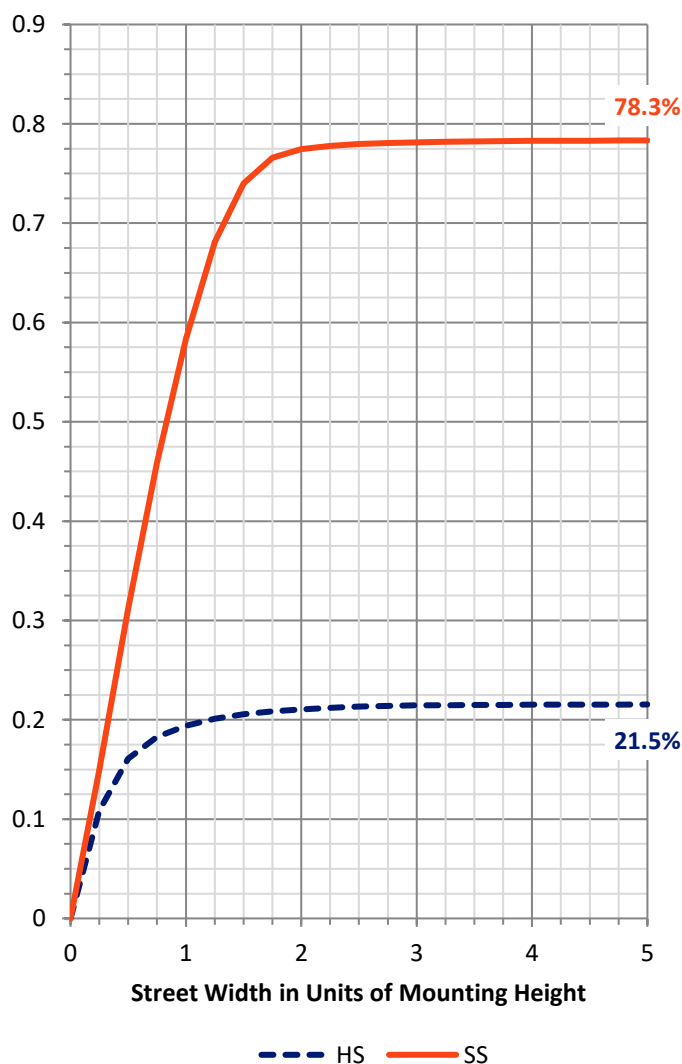
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3698.7	0.0	3698.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13308.3	0.0	13308.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	17007.0	0.0	17007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	1.9
10°-20°	1011.2	5.9
20°-30°	1834.2	10.8
30°-40°	2881.1	16.9
40°-50°	4203.0	24.7
50°-60°	5063.9	29.8
60°-70°	1482.7	8.7
70°-80°	188.1	1.1
80°-90°	26.4	0.2
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°	17007.0	100.0
0°-180°	17007.0	100.0

Coefficient of Utilization

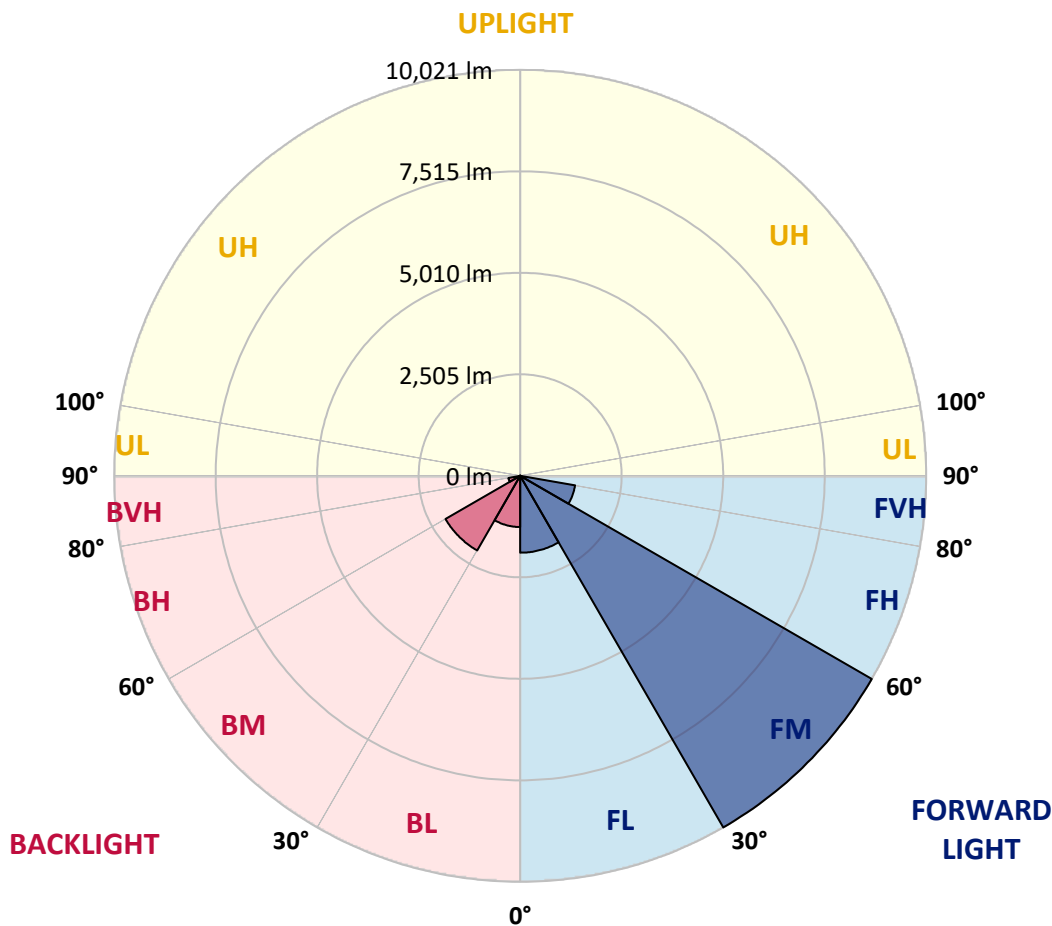


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 CATALOG NUMBER: GALN-SA5D-827-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.6	11.2			
FM (30°-60°)	10020.6	58.9			
FH (60°-80°)	1376.8	8.1			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1264.2	7.4	B3/2500		
BM (30°-60°)	2127.5	12.5	B2/2500		
BH (60°-80°)	293.9	1.7	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3
2.5°	3307.2	3291.7	3291.7	3266.9	3294.8	3282.4	3291.7	3260.7	3291.7	3245.2	3282.4
5°	3322.7	3325.8	3313.4	3328.9	3328.9	3347.4	3316.5	3344.3	3359.8	3325.8	3310.3
7.5°	3403.2	3409.4	3406.3	3393.9	3418.7	3415.6	3412.5	3390.8	3397.0	3384.6	3366.0
10°	3561.1	3558.0	3573.5	3542.5	3523.9	3545.6	3551.8	3517.7	3493.0	3483.7	3424.9
12.5°	3790.3	3753.1	3731.4	3700.4	3709.7	3678.8	3734.5	3675.7	3663.3	3607.6	3548.7
15°	3976.0	3969.9	3973.0	3923.4	3867.7	3880.1	3880.1	3849.1	3830.5	3762.4	3678.8
17.5°	4356.9	4226.9	4254.7	4192.8	4146.4	4143.3	4115.4	4121.6	4072.0	3929.6	3802.6
20°	4654.2	4598.5	4555.1	4449.8	4378.6	4400.3	4387.9	4356.9	4341.4	4155.7	3976.0
22.5°	4920.5	4939.1	4867.9	4840.0	4740.9	4750.2	4775.0	4747.1	4629.4	4437.4	4171.1
25°	5295.2	5273.5	5177.5	5143.5	5050.6	5084.6	5180.6	5159.0	5084.6	4737.8	4322.9
27.5°	5738.0	5663.7	5682.3	5527.4	5437.6	5533.6	5648.2	5756.6	5546.0	5090.8	4502.5
30°	6050.8	5973.4	5967.2	5961.0	5939.3	6050.8	6183.9	6283.0	6112.7	5443.8	4799.7
32.5°	6205.6	6224.2	6276.8	6258.2	6447.1	6676.3	6815.6	6958.1	6744.4	6019.8	5193.0
35°	6617.5	6499.8	6617.5	6629.8	6824.9	7311.1	7487.6	7828.2	7775.6	6834.2	5673.0
37.5°	6859.0	6849.7	6865.2	6982.9	7171.7	7772.5	8023.3	8286.5	8187.4	7323.5	6270.6
40°	7258.5	7283.2	7280.1	7369.9	7577.4	8119.3	8221.5	8435.2	8444.5	8001.6	7150.1
42.5°	7899.5	7800.4	7735.3	7828.2	8119.3	8419.7	8624.1	8580.7	8887.3	8825.3	8280.3
45°	8475.4	8534.3	8438.3	8593.1	8698.4	8859.4	8853.2	8946.1	9336.3	9630.5	9131.9
47.5°	9014.2	9051.4	9097.8	9203.1	9432.3	9457.0	9404.4	9364.1	9903.0	10206.4	9791.5
50°	9336.3	9370.3	9587.1	9776.0	10203.3	10259.1	10290.0	10187.8	10553.2	10587.3	10413.9
52.5°	9249.6	9286.7	9590.2	10212.6	10893.9	11404.8	11311.9	11138.5	11116.8	11250.0	10989.9
55°	8481.6	8447.6	8865.6	9834.8	11110.6	12336.9	12349.3	12166.6	11816.7	11726.9	10903.2
56°	7828.2	7695.1	8227.7	9398.2	10831.9	12256.4	12395.7	12200.6	11872.4	11469.8	10367.5
57.5°	6413.1	6540.0	7069.6	8038.8	9868.9	11677.3	11757.8	11711.4	11463.7	10788.6	9122.6
60°	3536.3	3759.3	4226.9	5412.9	7026.2	8961.6	9026.6	9404.4	9450.9	8261.8	6276.8
62.5°	1501.9	1477.1	1963.3	2836.5	4000.8	5409.8	5530.5	5917.6	5988.8	4762.6	3149.3
65°	610.0	644.1	888.7	1427.5	2115.0	2464.9	2635.2	2762.2	2997.5	1966.3	1161.2
67.5°	402.6	399.5	523.3	814.4	1139.6	1099.3	1099.3	1161.2	1074.5	802.0	501.7
70°	288.0	297.3	374.7	563.6	709.1	526.4	504.7	483.1	548.1	529.5	405.7
72.5°	188.9	201.3	250.8	337.5	368.5	288.0	288.0	346.8	452.1	427.3	331.3
75°	123.9	127.0	154.8	195.1	182.7	148.6	164.1	232.2	328.2	315.9	235.3
77.5°	83.6	86.7	105.3	127.0	102.2	83.6	89.8	117.7	161.0	161.0	123.9
80°	31.0	34.1	43.4	40.3	46.4	58.8	65.0	80.5	96.0	96.0	83.6
82.5°	0.0	3.1	9.3	21.7	34.1	46.4	52.6	61.9	71.2	80.5	77.4
85°	0.0	3.1	9.3	15.5	24.8	27.9	31.0	21.7	18.6	18.6	15.5
87.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.2	3.1	3.1
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°	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3	3248.3
2.5°	3248.3	3245.2	3245.2	3236.0	3254.5	3245.2	3251.4	3248.3	3208.1	3239.1	3217.4
5°	3282.4	3304.1	3270.0	3263.8	3239.1	3248.3	3248.3	3217.4	3245.2	3242.2	3236.0
7.5°	3369.1	3332.0	3294.8	3257.6	3251.4	3242.2	3208.1	3195.7	3217.4	3192.6	3229.8
10°	3406.3	3412.5	3356.7	3307.2	3260.7	3195.7	3149.3	3121.4	3087.3	3124.5	3146.2
12.5°	3576.6	3514.7	3418.7	3341.2	3183.3	3118.3	3071.8	3059.5	3118.3	3130.7	3109.0
15°	3635.4	3626.1	3502.3	3328.9	3164.7	3087.3	3096.6	3071.8	3078.0	3047.1	3053.3
17.5°	3756.2	3650.9	3505.4	3288.6	3161.6	3143.1	3087.3	2988.2	2932.5	2907.7	2929.4
20°	3889.3	3787.2	3576.6	3304.1	3189.5	3140.0	2957.3	2836.5	2721.9	2660.0	2663.1
22.5°	4007.0	3880.1	3545.6	3310.3	3214.3	3009.9	2790.0	2551.6	2409.2	2313.2	2316.3
25°	4149.5	3969.9	3558.0	3322.7	3149.3	2802.4	2486.6	2254.3	2084.0	2019.0	2040.7
27.5°	4230.0	4025.6	3626.1	3350.5	2978.9	2508.3	2167.6	1950.9	1851.8	1820.8	1817.7
30°	4471.5	4149.5	3709.7	3294.8	2694.1	2192.4	1876.5	1743.4	1647.4	1619.5	1625.7
32.5°	4830.7	4375.5	3818.1	3149.3	2403.0	1910.6	1687.7	1588.6	1498.8	1446.1	1439.9
35°	5131.1	4762.6	3932.7	2923.2	2065.4	1693.8	1554.5	1430.6	1294.4	1235.5	1220.1
37.5°	5704.0	5199.2	3907.9	2582.6	1743.4	1532.8	1412.1	1260.3	1142.6	1062.1	1052.8
40°	6465.7	5710.1	3787.2	2167.6	1505.0	1390.4	1260.3	1114.8	969.2	901.1	894.9
42.5°	7391.6	6335.7	3567.3	1746.5	1266.5	1247.9	1130.3	963.0	833.0	783.4	786.5
45°	8144.1	6871.4	3344.3	1402.8	1090.0	1108.6	1006.4	848.5	758.7	718.4	718.4
47.5°	8813.0	7233.7	3102.8	1158.1	925.9	969.2	879.4	786.5	709.1	678.2	672.0
50°	9457.0	7602.2	2861.3	938.3	789.6	833.0	823.7	749.4	687.4	650.3	653.4
52.5°	9859.6	7661.0	2554.7	768.0	690.5	740.1	771.1	702.9	634.8	613.1	606.9
55°	9367.2	6902.3	1981.8	631.7	585.3	650.3	709.1	631.7	579.1	541.9	538.8
56°	8704.6	6171.5	1656.7	582.2	554.3	625.5	687.4	603.8	545.0	523.3	507.8
57.5°	7369.9	5050.6	1223.2	517.1	514.0	582.2	653.4	576.0	507.8	489.3	489.3
60°	4595.4	2842.7	740.1	433.5	445.9	517.1	588.4	514.0	452.1	452.1	461.4
62.5°	2093.3	1182.9	449.0	368.5	384.0	445.9	523.3	464.5	430.4	464.5	470.7
65°	712.2	510.9	325.1	294.2	303.5	368.5	449.0	470.7	467.6	489.3	501.7
67.5°	399.5	328.2	272.5	244.6	238.4	272.5	368.5	470.7	452.1	442.8	449.0
70°	337.5	278.7	241.5	216.8	207.5	219.9	284.9	356.1	319.0	309.7	303.5
72.5°	272.5	232.2	210.6	195.1	167.2	142.4	130.1	136.3	151.7	161.0	176.5
75°	192.0	176.5	176.5	157.9	120.8	89.8	71.2	58.8	40.3	27.9	31.0
77.5°	108.4	108.4	111.5	96.0	77.4	58.8	43.4	31.0	15.5	6.2	3.1
80°	74.3	80.5	86.7	77.4	65.0	52.6	37.2	21.7	9.3	0.0	0.0
82.5°	74.3	83.6	89.8	77.4	65.0	49.5	37.2	21.7	9.3	3.1	0.0
85°	15.5	18.6	21.7	24.8	37.2	37.2	27.9	18.6	9.3	3.1	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	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)