

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: P532611

Luminaire Tested: **GALN-SA8A-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532611
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-SA8A-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 18443 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

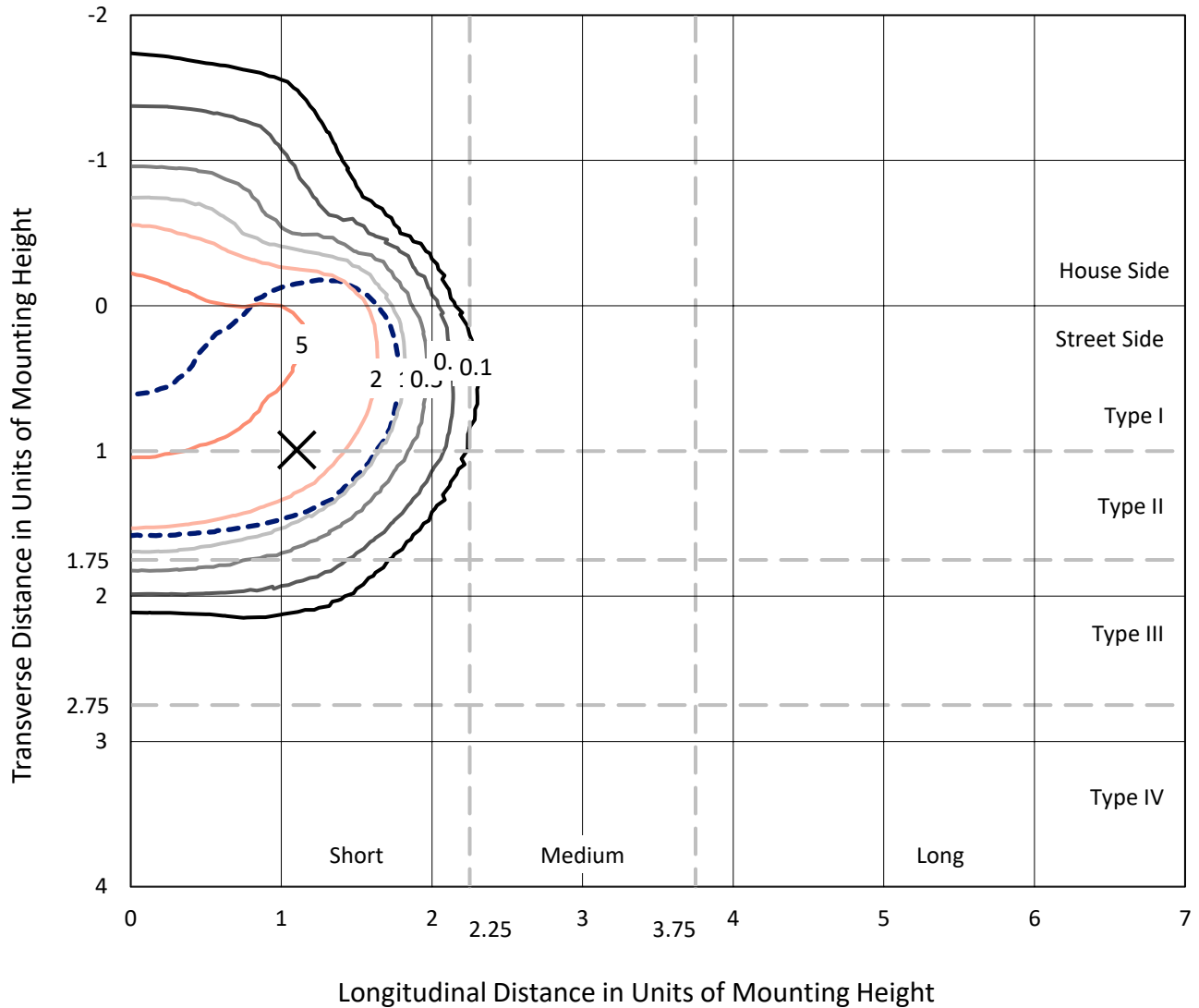
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

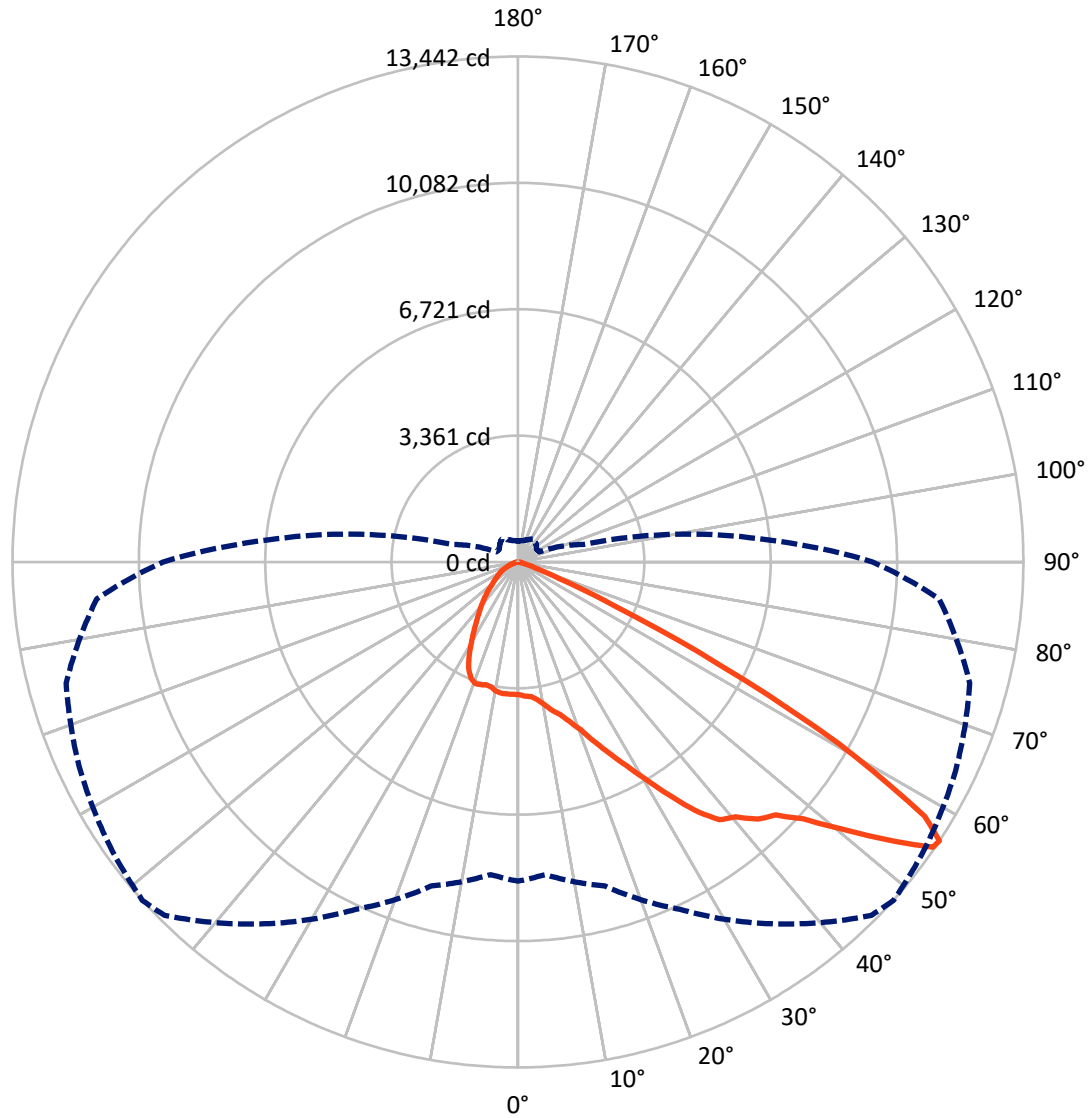
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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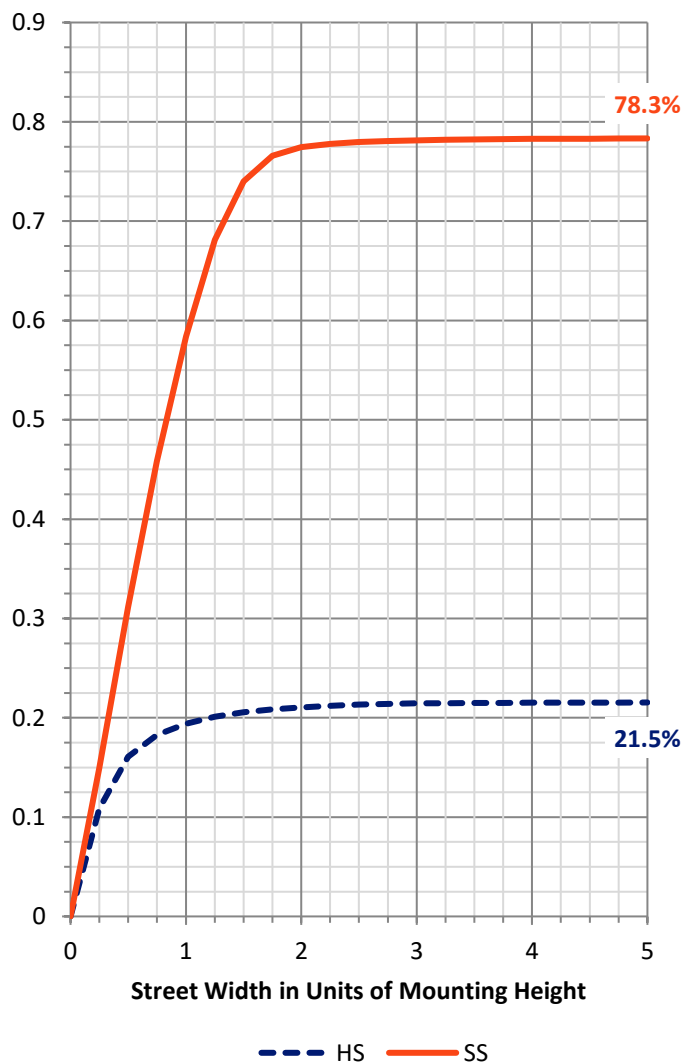
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4011.0	0.0	4011.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14432.0	0.0	14432.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	18443.0	0.0	18443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	1.9
10°-20°	1096.6	5.9
20°-30°	1989.1	10.8
30°-40°	3124.4	16.9
40°-50°	4557.9	24.7
50°-60°	5491.4	29.8
60°-70°	1607.8	8.7
70°-80°	204.0	1.1
80°-90°	28.6	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°	18443.0	100.0
0°-180°	18443.0	100.0

Coefficient of Utilization

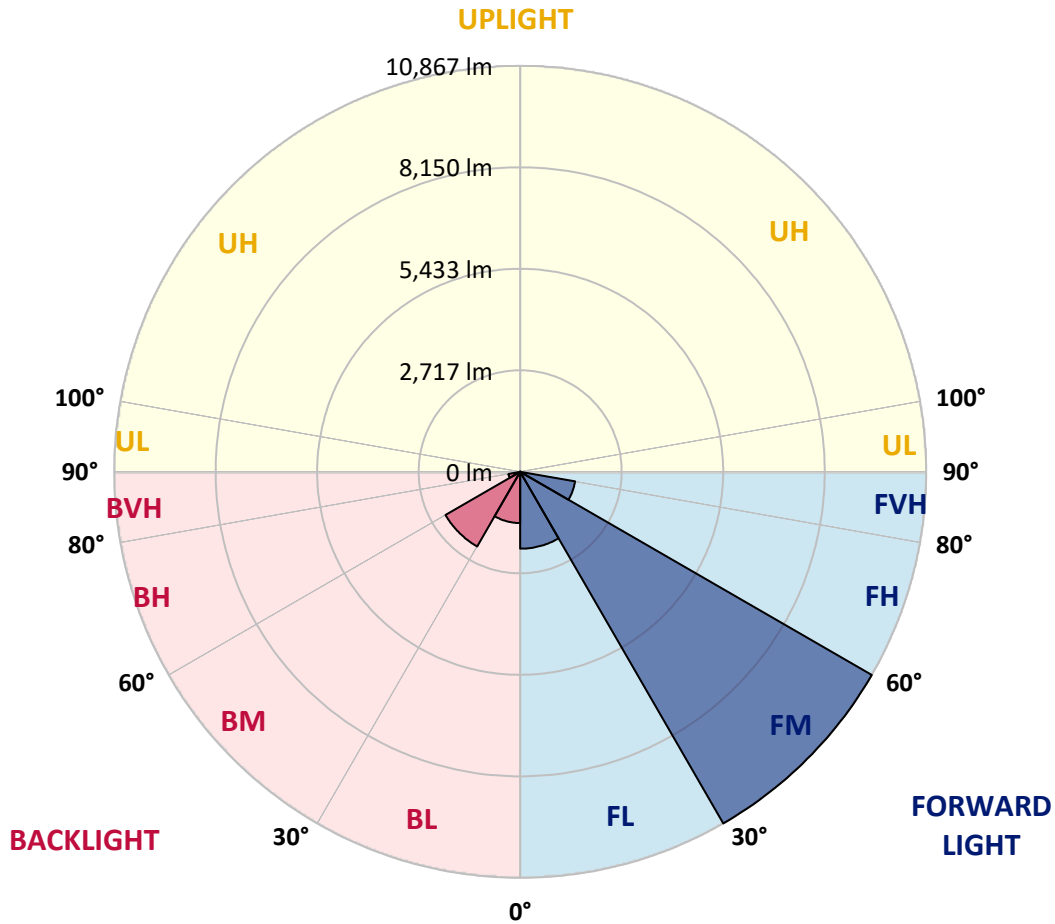


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.9	11.2			
FM (30°-60°)	10866.7	58.9			
FH (60°-80°)	1493.1	8.1			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1370.9	7.4	B3/2500		
BM (30°-60°)	2307.1	12.5	B2/2500		
BH (60°-80°)	318.7	1.7	B1/500		G1/500
BVH (80°-90°)	14.2	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°	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6
2.5°	3586.4	3569.6	3569.6	3542.8	3573.0	3559.6	3569.6	3536.1	3569.6	3519.3	3559.6
5°	3603.2	3606.6	3593.1	3609.9	3609.9	3630.1	3596.5	3626.7	3643.5	3606.6	3589.8
7.5°	3690.5	3697.2	3693.9	3680.5	3707.3	3704.0	3700.6	3677.1	3683.8	3670.4	3650.2
10°	3861.8	3858.4	3875.2	3841.6	3821.5	3845.0	3851.7	3814.8	3787.9	3777.8	3714.0
12.5°	4110.3	4070.0	4046.5	4012.9	4023.0	3989.4	4049.8	3986.0	3972.6	3912.2	3848.4
15°	4311.8	4305.1	4308.4	4254.7	4194.2	4207.7	4207.7	4174.1	4153.9	4080.1	3989.4
17.5°	4724.8	4583.8	4614.0	4546.8	4496.5	4493.1	4462.9	4469.6	4415.9	4261.4	4123.7
20°	5047.2	4986.7	4939.7	4825.6	4748.3	4771.8	4758.4	4724.8	4708.0	4506.5	4311.8
22.5°	5336.0	5356.1	5278.9	5248.7	5141.2	5151.3	5178.2	5147.9	5020.3	4812.1	4523.3
25°	5742.3	5718.8	5614.7	5577.8	5477.0	5514.0	5618.1	5594.6	5514.0	5137.9	4687.9
27.5°	6222.5	6141.9	6162.1	5994.2	5896.8	6000.9	6125.1	6242.7	6014.3	5520.7	4882.6
30°	6561.7	6477.7	6471.0	6464.3	6440.8	6561.7	6706.1	6813.5	6628.8	5903.5	5205.0
32.5°	6729.6	6749.7	6806.8	6786.7	6991.5	7240.0	7391.1	7545.6	7313.9	6528.1	5631.5
35°	7176.2	7048.6	7176.2	7189.6	7401.2	7928.4	8119.8	8489.2	8432.1	7411.3	6152.0
37.5°	7438.1	7428.1	7444.9	7572.5	7777.3	8428.8	8700.8	8986.2	8878.8	7941.8	6800.1
40°	7871.3	7898.2	7894.8	7992.2	8217.2	8804.9	8915.7	9147.4	9157.5	8677.3	7753.8
42.5°	8566.5	8459.0	8388.5	8489.2	8804.9	9130.6	9352.2	9305.2	9637.7	9570.5	8979.5
45°	9191.1	9254.9	9150.8	9318.7	9432.8	9607.5	9600.7	9701.5	10124.6	10443.6	9903.0
47.5°	9775.4	9815.7	9866.0	9980.2	10228.7	10255.6	10198.5	10154.8	10739.1	11068.2	10618.2
50°	10124.6	10161.5	10396.6	10601.4	11064.9	11125.3	11158.9	11048.1	11444.3	11481.3	11293.2
52.5°	10030.6	10070.9	10400.0	11074.9	11813.7	12367.8	12267.0	12079.0	12055.5	12199.9	11917.8
55°	9197.8	9160.8	9614.2	10665.2	12048.8	13378.6	13392.0	13193.9	12814.4	12717.0	11823.8
56°	8489.2	8344.8	8922.4	10191.8	11746.5	13291.3	13442.4	13230.8	12874.9	12438.3	11242.8
57.5°	6954.6	7092.3	7666.5	8717.6	10702.2	12663.3	12750.6	12700.2	12431.6	11699.5	9892.9
60°	3834.9	4076.7	4583.8	5869.9	7619.5	9718.3	9788.8	10198.5	10248.8	8959.3	6806.8
62.5°	1628.7	1601.8	2129.0	3076.0	4338.6	5866.6	5997.5	6417.3	6494.5	5164.7	3415.2
65°	661.5	698.5	963.8	1548.1	2293.6	2673.0	2857.7	2995.4	3250.6	2132.4	1259.3
67.5°	436.5	433.2	567.5	883.2	1235.8	1192.1	1192.1	1259.3	1165.3	869.7	544.0
70°	312.3	322.4	406.3	611.2	769.0	570.9	547.4	523.9	594.4	574.2	439.9
72.5°	204.8	218.3	272.0	366.0	399.6	312.3	312.3	376.1	490.3	463.4	359.3
75°	134.3	137.7	167.9	211.6	198.1	161.2	178.0	251.9	356.0	342.5	255.2
77.5°	90.7	94.0	114.2	137.7	110.8	90.7	97.4	127.6	174.6	174.6	134.3
80°	33.6	36.9	47.0	43.7	50.4	63.8	70.5	87.3	104.1	104.1	90.7
82.5°	0.0	3.4	10.1	23.5	36.9	50.4	57.1	67.2	77.2	87.3	84.0
85°	0.0	3.4	10.1	16.8	26.9	30.2	33.6	23.5	20.1	20.1	16.8
87.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	6.7	3.4	3.4
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°	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6	3522.6
2.5°	3522.6	3519.3	3519.3	3509.2	3529.3	3519.3	3526.0	3522.6	3479.0	3512.5	3489.0
5°	3559.6	3583.1	3546.1	3539.4	3512.5	3522.6	3522.6	3489.0	3519.3	3515.9	3509.2
7.5°	3653.6	3613.3	3573.0	3532.7	3526.0	3515.9	3479.0	3465.5	3489.0	3462.2	3502.5
10°	3693.9	3700.6	3640.2	3586.4	3536.1	3465.5	3415.2	3384.9	3348.0	3388.3	3411.8
12.5°	3878.6	3811.4	3707.3	3623.4	3452.1	3381.6	3331.2	3317.8	3381.6	3395.0	3371.5
15°	3942.4	3932.3	3798.0	3609.9	3432.0	3348.0	3358.1	3331.2	3337.9	3304.3	3311.1
17.5°	4073.3	3959.2	3801.3	3566.3	3428.6	3408.4	3348.0	3240.5	3180.1	3153.2	3176.7
20°	4217.7	4106.9	3878.6	3583.1	3458.8	3405.1	3207.0	3076.0	2951.7	2884.6	2887.9
22.5°	4345.3	4207.7	3845.0	3589.8	3485.7	3264.0	3025.6	2767.1	2612.6	2508.5	2511.8
25°	4499.8	4305.1	3858.4	3603.2	3415.2	3039.1	2696.5	2444.7	2260.0	2189.5	2213.0
27.5°	4587.1	4365.5	3932.3	3633.4	3230.5	2720.0	2350.7	2115.6	2008.1	1974.5	1971.2
30°	4849.1	4499.8	4023.0	3573.0	2921.5	2377.5	2035.0	1890.6	1786.5	1756.3	1763.0
32.5°	5238.6	4745.0	4140.5	3415.2	2605.9	2071.9	1830.2	1722.7	1625.3	1568.2	1561.5
35°	5564.3	5164.7	4264.8	3170.0	2239.8	1836.9	1685.8	1551.4	1403.7	1339.9	1323.1
37.5°	6185.6	5638.2	4237.9	2800.6	1890.6	1662.2	1531.3	1366.7	1239.1	1151.8	1141.7
40°	7011.7	6192.3	4106.9	2350.7	1632.0	1507.8	1366.7	1208.9	1051.1	977.2	970.5
42.5°	8015.7	6870.6	3868.5	1894.0	1373.5	1353.3	1225.7	1044.4	903.3	849.6	853.0
45°	8831.7	7451.6	3626.7	1521.2	1182.0	1202.2	1091.4	920.1	822.7	779.1	779.1
47.5°	9557.1	7844.5	3364.8	1255.9	1004.1	1051.1	953.7	853.0	769.0	735.4	728.7
50°	10255.6	8244.1	3102.9	1017.5	856.3	903.3	893.2	812.7	745.5	705.2	708.6
52.5°	10692.1	8307.9	2770.4	832.8	748.9	802.6	836.2	762.3	688.4	664.9	658.2
55°	10158.2	7485.1	2149.2	685.0	634.7	705.2	769.0	685.0	628.0	587.7	584.3
56°	9439.5	6692.6	1796.6	631.3	601.1	678.3	745.5	654.8	591.0	567.5	550.7
57.5°	7992.2	5477.0	1326.4	560.8	557.4	631.3	708.6	624.6	550.7	530.6	530.6
60°	4983.4	3082.7	802.6	470.1	483.6	560.8	638.0	557.4	490.3	490.3	500.4
62.5°	2270.1	1282.8	486.9	399.6	416.4	483.6	567.5	503.7	466.8	503.7	510.4
65°	772.4	554.1	352.6	319.0	329.1	399.6	486.9	510.4	507.1	530.6	544.0
67.5°	433.2	356.0	295.5	265.3	258.6	295.5	399.6	510.4	490.3	480.2	486.9
70°	366.0	302.2	261.9	235.1	225.0	238.4	308.9	386.2	345.9	335.8	329.1
72.5°	295.5	251.9	228.3	211.6	181.3	154.5	141.0	147.8	164.5	174.6	191.4
75°	208.2	191.4	191.4	171.3	131.0	97.4	77.2	63.8	43.7	30.2	33.6
77.5°	117.5	117.5	120.9	104.1	84.0	63.8	47.0	33.6	16.8	6.7	3.4
80°	80.6	87.3	94.0	84.0	70.5	57.1	40.3	23.5	10.1	0.0	0.0
82.5°	80.6	90.7	97.4	84.0	70.5	53.7	40.3	23.5	10.1	3.4	0.0
85°	16.8	20.1	23.5	26.9	40.3	40.3	30.2	20.1	10.1	3.4	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	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)