

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: P530194

Luminaire Tested: **GALN-SA5B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17860 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

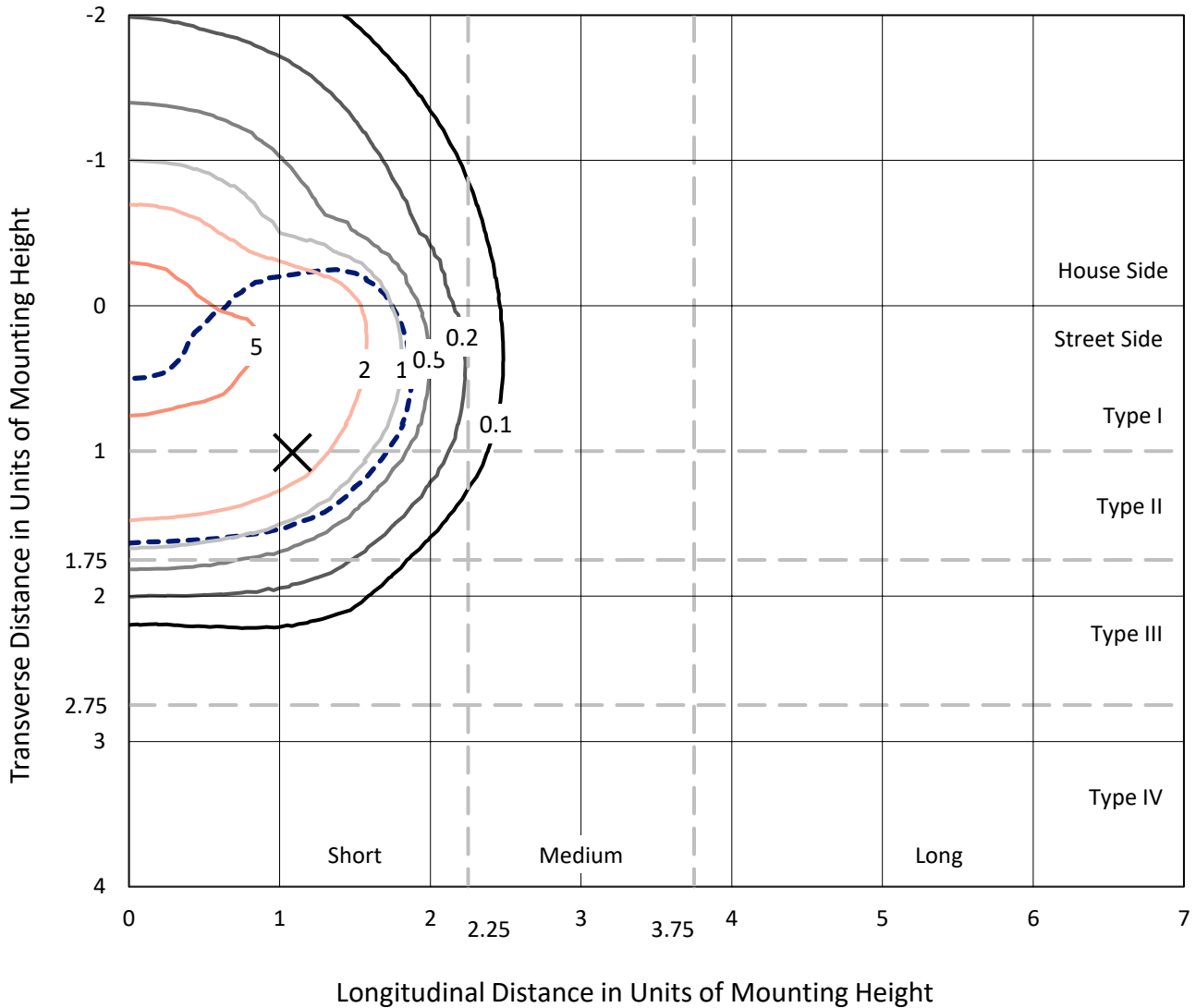
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

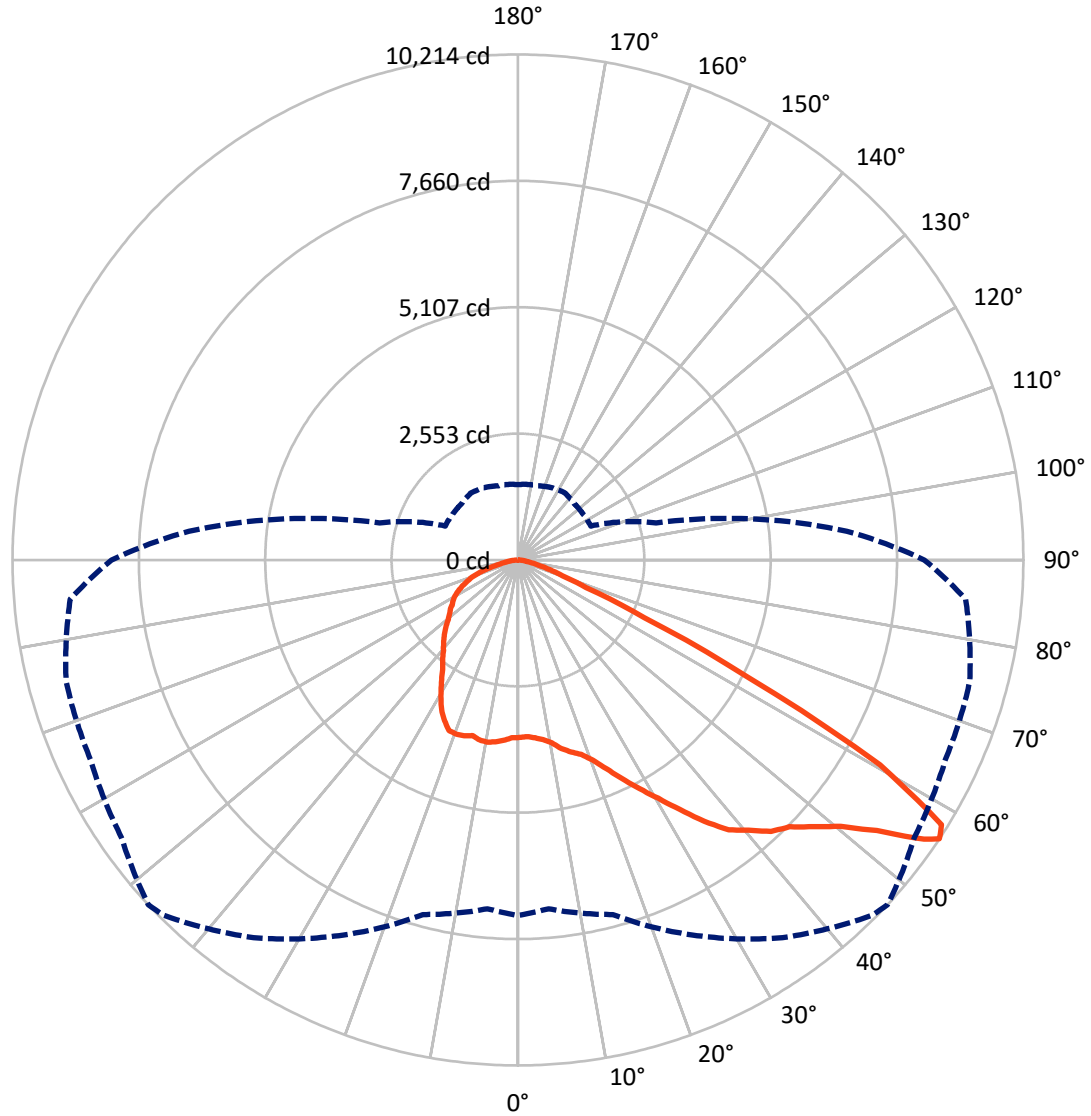
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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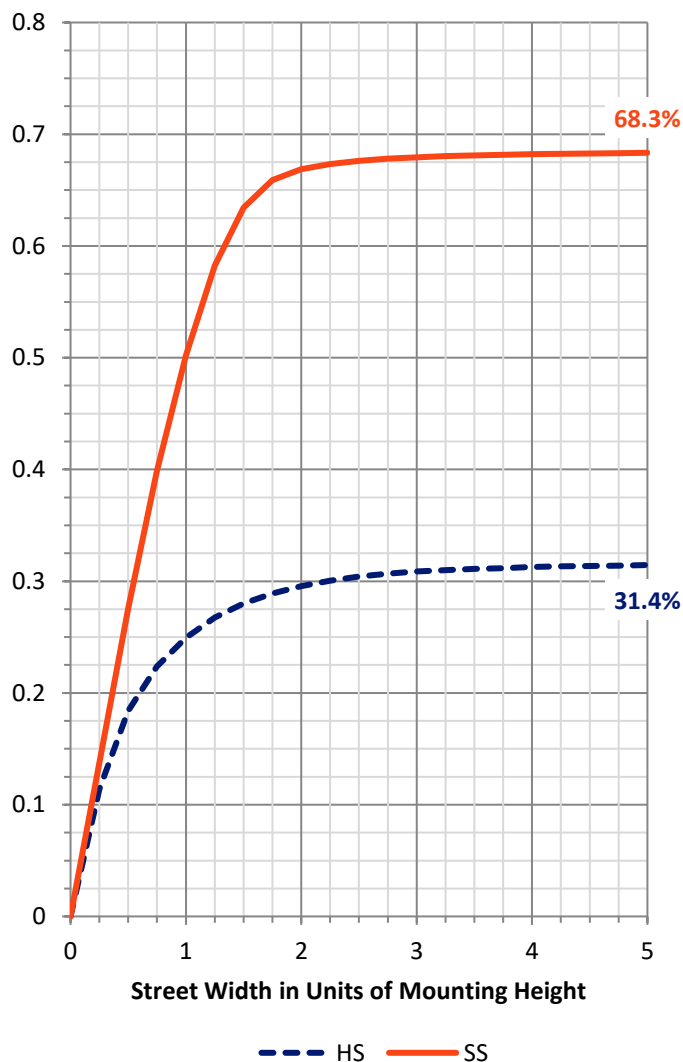
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5659.6	0.0	5659.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12200.4	0.0	12200.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	17860.0	0.0	17860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.6	2.0
10°-20°	1102.7	6.2
20°-30°	1949.3	10.9
30°-40°	2927.7	16.4
40°-50°	4018.0	22.5
50°-60°	4786.9	26.8
60°-70°	2048.5	11.5
70°-80°	579.7	3.2
80°-90°	97.6	0.5
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°	17860.0	100.0
0°-180°	17860.0	100.0

Coefficient of Utilization



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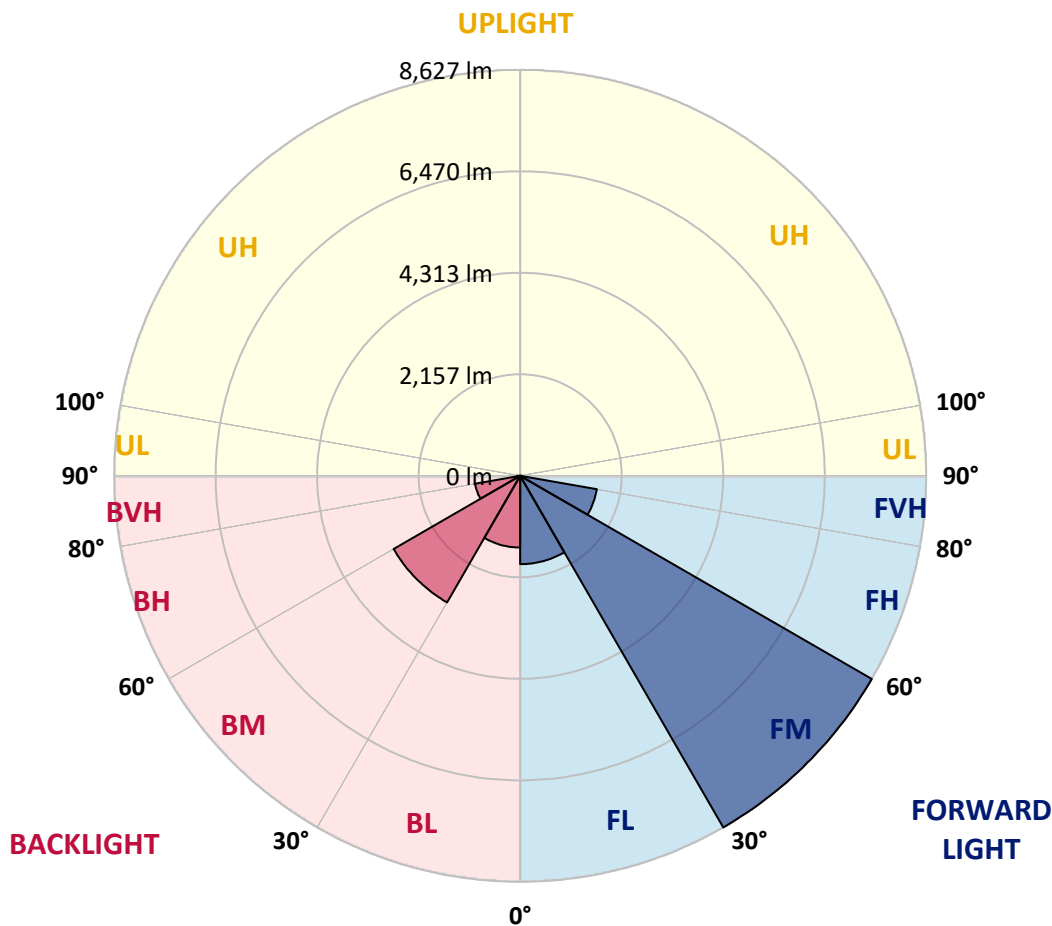
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.7	10.5			
FM (30°-60°)	8626.8	48.3			
FH (60°-80°)	1654.5	9.3			G1/1800
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	1523.8	8.5	B3/2500		
BM (30°-60°)	3105.9	17.4	B3/5000		
BH (60°-80°)	973.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	56.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5
2.5°	3573.9	3567.0	3562.5	3598.9	3585.3	3587.5	3573.9	3587.5	3596.6	3576.1	3605.8
5°	3567.0	3587.5	3569.3	3580.7	3610.3	3601.2	3610.3	3637.6	3630.8	3624.0	3614.9
7.5°	3630.8	3633.1	3646.8	3651.3	3660.4	3651.3	3665.0	3690.0	3683.2	3644.5	3649.0
10°	3721.9	3726.5	3728.8	3753.8	3769.8	3772.0	3756.1	3733.3	3731.0	3783.4	3747.0
12.5°	3826.7	3815.3	3842.6	3851.8	3870.0	3890.5	3911.0	3863.1	3892.8	3895.0	3851.8
15°	3979.3	3990.7	3958.8	3958.8	3965.6	3967.9	4024.9	4002.1	3997.5	3972.5	3990.7
17.5°	4207.1	4129.6	4127.4	4095.5	4090.9	4109.1	4129.6	4147.9	4209.4	4159.3	4061.3
20°	4373.4	4391.6	4325.5	4286.8	4293.6	4334.6	4314.1	4396.1	4439.4	4357.4	4261.8
22.5°	4667.2	4605.7	4621.7	4535.1	4541.9	4585.2	4582.9	4667.2	4692.3	4562.4	4423.5
25°	4865.4	4849.4	4863.1	4794.8	4803.9	4838.0	4892.7	5031.7	4990.7	4847.2	4526.0
27.5°	5154.7	5122.8	5111.4	5086.3	5077.2	5168.3	5232.1	5380.2	5350.5	5141.0	4708.2
30°	5450.8	5430.3	5441.7	5339.2	5375.6	5569.2	5587.4	5790.2	5776.5	5407.5	4910.9
32.5°	5655.8	5667.2	5687.7	5630.7	5792.4	5947.3	6008.8	6238.9	6250.3	5865.3	5302.7
35°	5986.1	5947.3	5958.7	6024.8	6099.9	6382.4	6482.6	6635.2	6730.9	6345.9	5678.5
37.5°	6193.3	6234.3	6186.5	6291.3	6487.2	6826.6	6917.7	7074.8	7175.1	6819.7	6191.1
40°	6516.8	6450.7	6484.9	6560.1	6760.5	7202.4	7177.3	7339.1	7371.0	7222.9	6669.4
42.5°	6865.3	6833.4	6785.6	6956.4	7125.0	7446.1	7496.2	7421.1	7582.8	7617.0	7352.7
45°	7282.1	7320.8	7327.7	7332.2	7480.3	7760.5	7692.1	7626.1	7812.8	8061.1	7776.4
47.5°	7669.3	7546.3	7635.2	7758.2	7967.7	7970.0	8049.7	7892.6	8090.7	8311.7	8159.1
50°	7799.2	7740.0	7858.4	8090.7	8414.2	8448.4	8457.5	8234.2	8336.7	8512.1	8291.2
52.5°	7749.1	7728.6	8031.5	8391.4	8865.2	9038.3	9083.9	8808.2	8865.2	8785.5	8582.7
55°	7509.9	7571.4	7876.6	8610.1	9336.7	9872.0	9958.5	9610.0	9247.9	9309.4	9086.1
56°	7181.9	7074.8	7416.5	8361.8	9316.2	10143.0	10213.6	9778.6	9532.6	9452.9	9081.6
57.5°	6093.1	5954.2	6402.9	7523.6	8799.1	10040.5	10092.9	9849.2	9484.7	9323.0	8418.7
60°	3567.0	3635.4	4204.8	5188.8	6787.8	8232.0	8407.4	8585.0	8341.3	7617.0	6266.2
62.5°	1722.0	1678.7	2086.5	2974.8	4136.5	5254.9	5202.5	5701.3	5974.7	5412.0	3956.5
65°	902.0	897.5	1138.9	1624.1	2273.2	2760.7	2808.5	3077.3	3453.1	2788.0	2009.0
67.5°	662.8	681.1	801.8	1141.2	1462.3	1492.0	1485.1	1619.5	1656.0	1400.8	1234.6
70°	519.3	528.4	617.3	867.8	1088.8	974.9	954.4	970.3	1077.4	1123.0	1068.3
72.5°	375.8	384.9	460.1	585.4	681.1	665.1	678.8	767.6	899.7	947.6	890.6
75°	250.6	257.4	298.4	357.6	403.2	435.1	460.1	562.6	685.6	713.0	685.6
77.5°	173.1	179.9	207.3	252.8	257.4	277.9	287.0	334.8	410.0	444.2	425.9
80°	97.9	97.9	111.6	129.8	159.4	186.8	191.3	230.1	264.2	287.0	291.6
82.5°	45.6	47.8	59.2	79.7	104.8	129.8	134.4	159.4	184.5	207.3	214.1
85°	22.8	25.1	34.2	47.8	63.8	77.4	75.2	77.4	82.0	77.4	79.7
87.5°	6.8	6.8	9.1	11.4	9.1	11.4	11.4	13.7	15.9	18.2	20.5
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°	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5	3587.5
2.5°	3608.0	3614.9	3569.3	3612.6	3596.6	3594.4	3626.3	3621.7	3633.1	3628.5	3601.2
5°	3610.3	3594.4	3642.2	3598.9	3619.4	3662.7	3633.1	3701.4	3667.3	3690.0	3639.9
7.5°	3680.9	3685.5	3676.4	3694.6	3685.5	3706.0	3690.0	3706.0	3678.6	3680.9	3726.5
10°	3742.4	3728.8	3744.7	3721.9	3737.9	3731.0	3694.6	3683.2	3692.3	3680.9	3710.5
12.5°	3856.3	3831.3	3819.9	3792.5	3774.3	3706.0	3649.0	3617.1	3660.4	3667.3	3653.6
15°	3972.5	3974.8	3922.4	3860.9	3747.0	3644.5	3658.1	3669.5	3669.5	3687.8	3653.6
17.5°	4045.4	4045.4	3997.5	3874.5	3758.4	3699.1	3685.5	3649.0	3617.1	3612.6	3610.3
20°	4172.9	4134.2	4024.9	3872.3	3753.8	3726.5	3624.0	3537.4	3471.4	3448.6	3446.3
22.5°	4318.7	4220.8	4068.1	3876.8	3747.0	3708.3	3516.9	3387.1	3268.6	3218.5	3225.4
25°	4453.1	4295.9	4093.2	3856.3	3721.9	3535.1	3321.0	3141.1	3018.1	2977.1	2956.6
27.5°	4546.5	4375.6	4093.2	3874.5	3628.5	3341.5	3122.9	2892.8	2785.7	2758.4	2763.0
30°	4671.8	4475.9	4163.8	3835.8	3441.8	3091.0	2829.0	2678.7	2614.9	2592.1	2608.1
32.5°	4965.6	4737.8	4261.8	3742.4	3220.8	2840.4	2628.6	2544.3	2450.9	2405.4	2389.4
35°	5284.5	4986.1	4357.4	3585.3	2972.5	2612.6	2480.5	2403.1	2291.5	2241.4	2250.5
37.5°	5735.5	5305.0	4364.3	3325.6	2703.7	2485.1	2364.4	2243.6	2152.5	2075.1	2052.3
40°	6343.7	5740.1	4348.3	3052.2	2487.4	2334.7	2245.9	2095.6	1993.1	1938.4	1949.8
42.5°	6878.9	6250.3	4282.3	2742.5	2291.5	2232.2	2132.0	1984.0	1883.7	1826.8	1822.2
45°	7330.0	6626.1	4157.0	2478.2	2127.5	2118.4	2002.2	1888.3	1808.6	1756.2	1779.0
47.5°	7746.8	6929.1	3967.9	2214.0	1977.1	1995.4	1883.7	1813.1	1763.0	1715.2	1712.9
50°	7897.1	6924.5	3801.6	1995.4	1856.4	1847.3	1842.7	1767.6	1715.2	1674.2	1692.4
52.5°	8147.7	7002.0	3621.7	1845.0	1747.1	1749.3	1765.3	1710.6	1651.4	1626.3	1649.1
55°	8507.6	7013.3	3225.4	1669.6	1656.0	1671.9	1671.9	1635.5	1585.3	1564.8	1553.5
56°	8213.7	6673.9	2892.8	1624.1	1610.4	1610.4	1653.7	1612.7	1551.2	1535.2	1521.6
57.5°	7576.0	5847.1	2421.3	1569.4	1548.9	1580.8	1603.6	1560.3	1503.3	1480.6	1494.2
60°	5225.3	3956.5	1820.0	1451.0	1451.0	1503.3	1521.6	1457.8	1432.7	1430.5	1412.2
62.5°	3050.0	2305.1	1423.6	1343.9	1348.5	1391.7	1405.4	1369.0	1337.1	1375.8	1394.0
65°	1617.2	1375.8	1220.9	1230.0	1232.3	1266.5	1325.7	1323.4	1321.1	1332.5	1334.8
67.5°	1170.8	1143.5	1109.3	1100.2	1104.7	1129.8	1189.0	1234.6	1232.3	1205.0	1184.5
70°	1043.2	1004.5	984.0	986.3	968.1	997.7	1045.5	1075.1	1022.7	990.8	977.2
72.5°	867.8	856.5	842.8	845.1	808.6	801.8	747.1	747.1	733.5	724.3	740.3
75°	662.8	658.3	665.1	653.7	615.0	574.0	542.1	512.5	466.9	448.7	439.6
77.5°	419.1	432.8	448.7	423.7	407.7	378.1	346.2	316.6	280.2	259.7	259.7
80°	284.7	296.1	307.5	302.9	284.7	257.4	232.3	200.4	175.4	159.4	157.2
82.5°	216.4	225.5	241.4	223.2	205.0	182.2	161.7	138.9	116.2	97.9	97.9
85°	77.4	88.8	97.9	107.1	113.9	116.2	100.2	82.0	66.1	52.4	50.1
87.5°	20.5	22.8	25.1	22.8	22.8	22.8	25.1	22.8	20.5	15.9	15.9
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)