

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: P530182

Luminaire Tested: **GALN-SA5B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17755 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

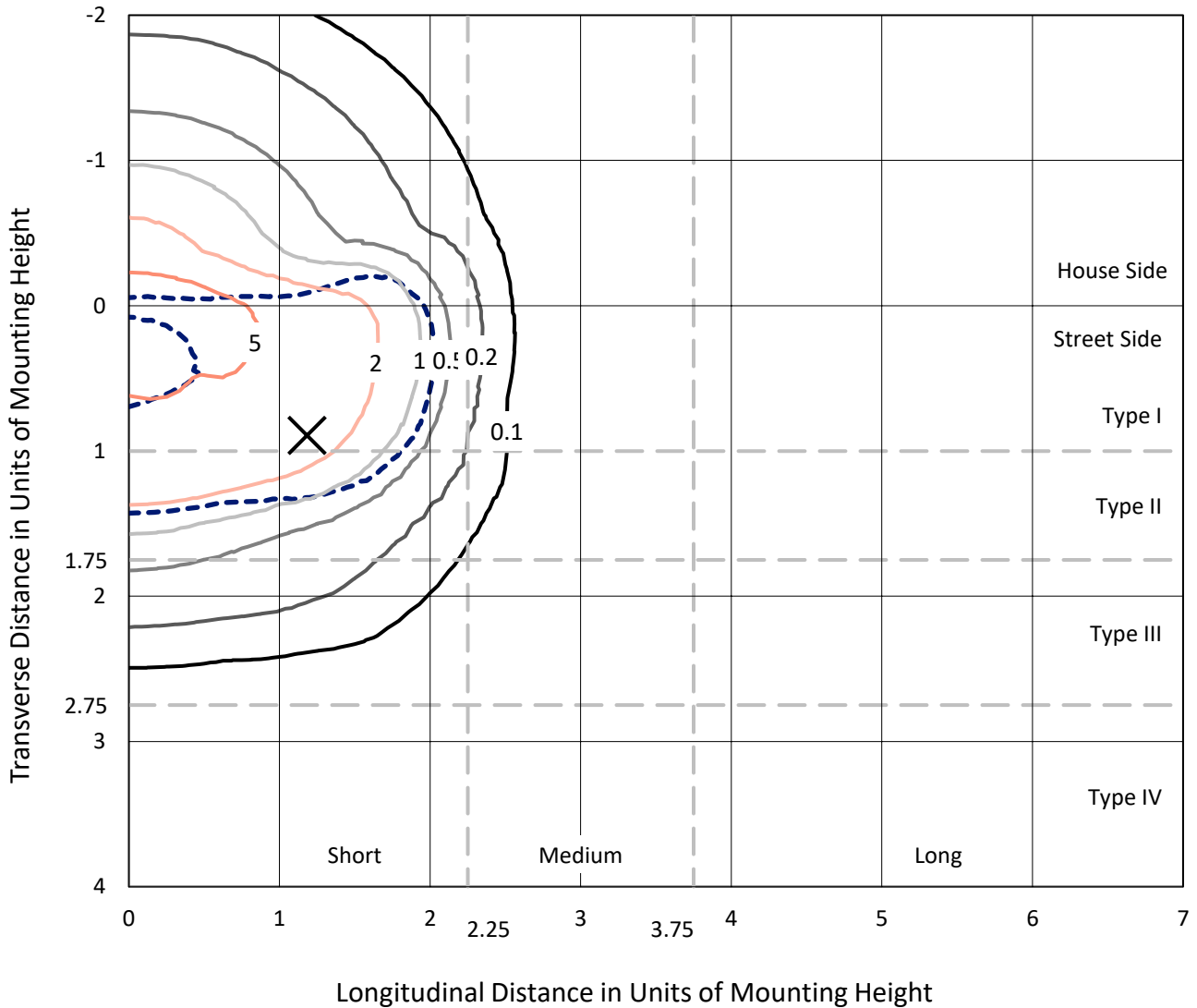
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

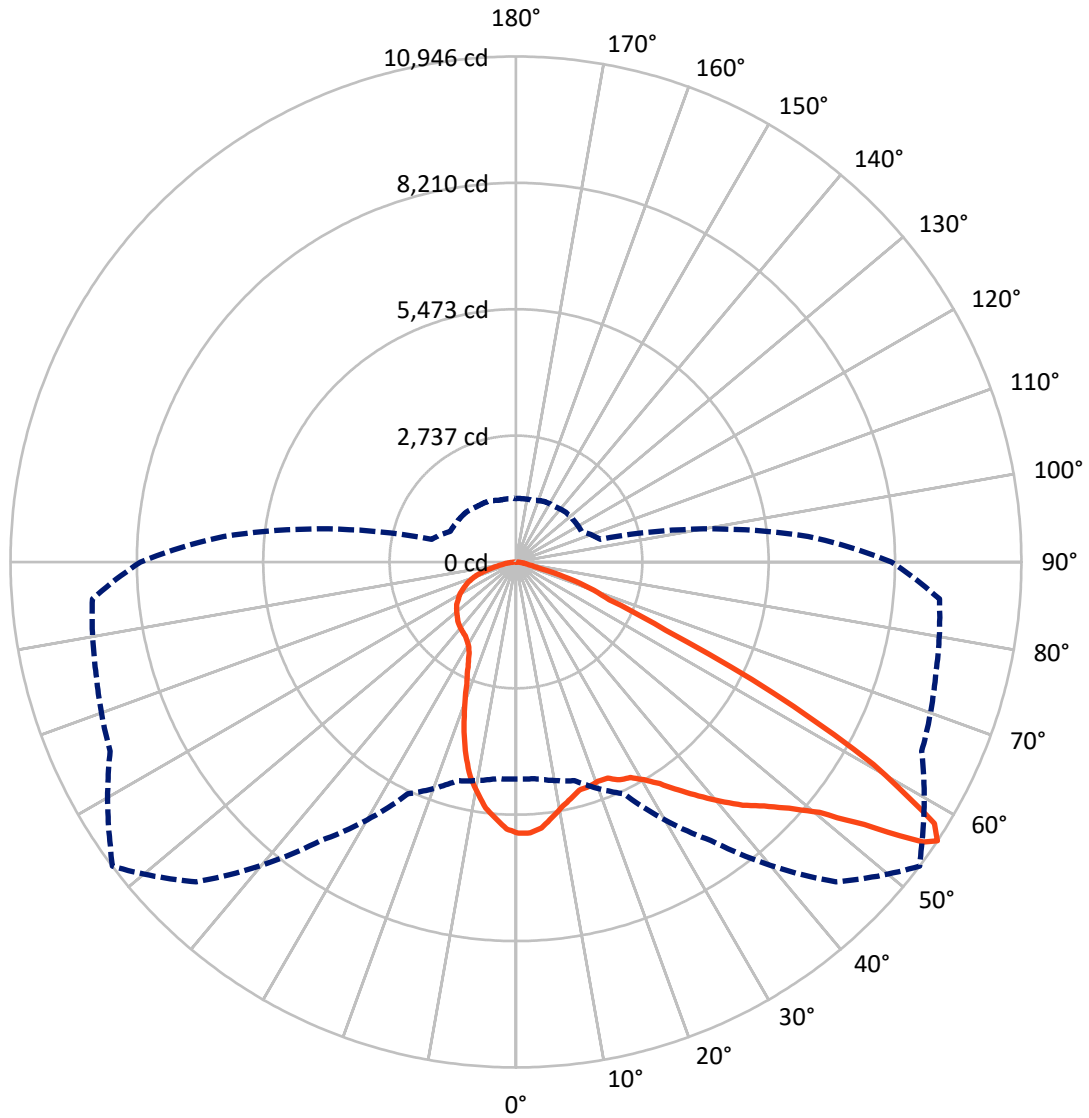
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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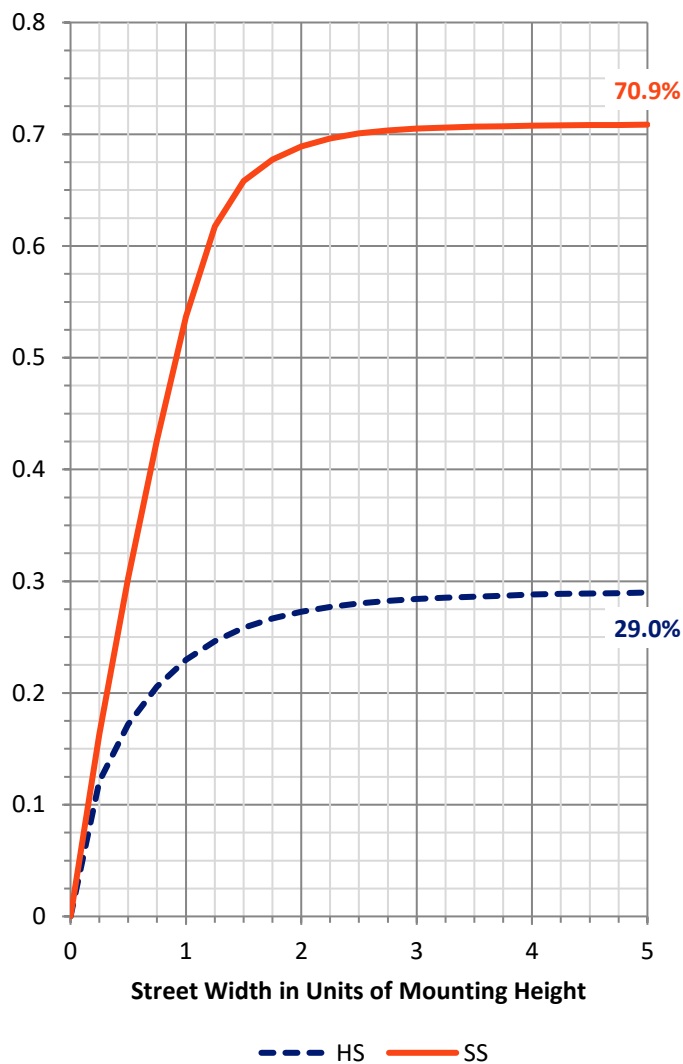
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5181.3	0.0	5181.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12573.7	0.0	12573.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	17755.0	0.0	17755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.0	2.9
10°-20°	1298.8	7.3
20°-30°	1915.2	10.8
30°-40°	2736.4	15.4
40°-50°	3766.3	21.2
50°-60°	4450.8	25.1
60°-70°	2372.0	13.4
70°-80°	601.7	3.4
80°-90°	93.8	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°	17755.0	100.0
0°-180°	17755.0	100.0

Coefficient of Utilization



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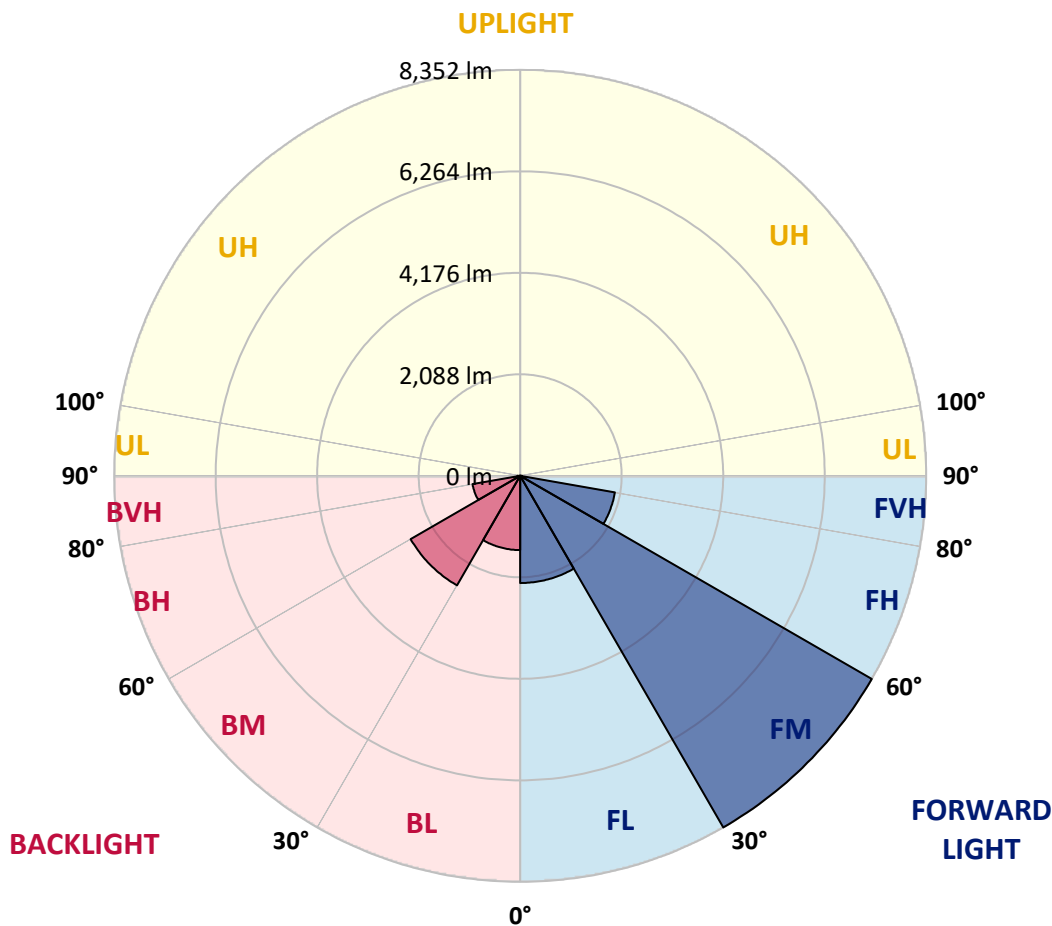
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.8	12.4			
FM (30°-60°)	8351.6	47.0			
FH (60°-80°)	1978.6	11.1			G2/5000
FVH (80°-90°)	37.7	0.2			G1/100
BL (0°-30°)	1528.2	8.6	B3/2500		
BM (30°-60°)	2601.9	14.7	B3/5000		
BH (60°-80°)	995.1	5.6	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°	53°	55°	65°	75°	85°
0°	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1
2.5°	5801.2	5751.1	5780.7	5769.3	5862.7	5890.0	5876.3	5887.7	5940.1	5915.1	5862.7
5°	5420.8	5491.4	5505.1	5539.2	5593.9	5701.0	5785.2	5808.0	5833.1	5949.2	5937.8
7.5°	5074.6	5122.4	5097.4	5197.6	5316.0	5489.1	5591.6	5609.8	5839.9	5903.7	5951.5
10°	4855.9	4808.1	4922.0	4949.3	5083.7	5281.9	5404.9	5480.0	5689.6	5942.4	5972.0
12.5°	4653.2	4637.3	4705.6	4783.1	4933.4	5138.4	5263.6	5293.3	5616.7	5883.2	6022.1
15°	4502.9	4484.7	4553.0	4610.0	4785.3	4967.5	5127.0	5211.3	5537.0	5849.0	5978.8
17.5°	4384.5	4382.2	4420.9	4523.4	4703.3	4855.9	5113.3	5117.9	5496.0	5901.4	6015.3
20°	4377.6	4375.4	4382.2	4496.1	4660.1	4846.8	5070.0	5111.0	5496.0	5864.9	6017.5
22.5°	4434.6	4398.1	4439.1	4512.0	4630.5	4862.8	5086.0	5177.1	5628.1	6044.9	6120.0
25°	4525.7	4534.8	4557.6	4582.6	4651.0	4899.2	5227.2	5302.4	5782.9	6199.8	6261.3
27.5°	4692.0	4687.4	4696.5	4710.2	4769.4	4933.4	5284.1	5477.7	6106.4	6475.4	6413.9
30°	4935.7	4919.7	4956.2	5004.0	4949.3	5042.7	5473.2	5619.0	6407.0	6753.2	6584.7
32.5°	5156.6	5215.8	5284.1	5304.6	5238.6	5256.8	5723.7	5871.8	6657.6	7094.9	6794.2
35°	5432.2	5480.0	5571.1	5634.9	5623.5	5568.8	6065.4	6261.3	7019.7	7345.4	7015.2
37.5°	5701.0	5757.9	5908.2	6097.3	5992.5	5967.4	6429.8	6591.5	7131.3	7479.8	7176.9
40°	6133.7	6131.4	6391.1	6489.0	6582.4	6539.1	6807.9	6862.6	7190.5	7450.2	7181.4
42.5°	6641.6	6609.7	6873.9	7026.5	7147.3	7151.8	7201.9	7183.7	7217.9	7299.9	7133.6
45°	7124.5	7192.8	7459.3	7732.6	7853.3	7867.0	7534.5	7500.3	7265.7	7256.6	7042.5
47.5°	7714.4	7730.3	7949.0	8308.9	8589.0	8493.3	7964.9	7889.8	7475.2	7545.8	7195.1
50°	7748.6	7867.0	8062.9	8486.5	9347.5	9322.4	8523.0	8381.7	7812.3	7955.8	7621.0
52.5°	7033.4	7006.0	7238.4	7930.8	9290.5	10146.9	9447.7	9110.6	8536.6	8427.3	8311.1
55°	5359.3	5423.1	5628.1	6327.3	8067.4	10158.3	10707.2	10431.6	9311.0	9124.3	8989.9
56°	4701.1	4710.2	4903.8	5541.5	7361.4	9796.2	10946.4	10723.2	9695.9	9411.2	9206.3
57.5°	3897.1	3844.7	3944.9	4293.4	6213.4	9030.9	10684.4	10903.1	10146.9	9721.0	9436.3
60°	3068.0	3056.6	3015.6	3079.4	3926.7	6803.3	8894.2	9386.2	10101.4	9429.5	9037.7
62.5°	2505.4	2448.5	2530.5	2621.6	2728.6	4220.5	6249.9	6539.1	8019.6	7527.6	6789.7
65°	1942.8	1915.5	2018.0	2314.1	2377.9	2680.8	3560.0	3783.2	4735.2	4651.0	4095.2
67.5°	1337.0	1341.5	1430.4	1881.3	2204.8	2177.4	2179.7	2295.9	2471.2	1835.8	1598.9
70°	847.3	845.0	892.8	1211.7	1774.3	1792.5	1701.4	1667.2	1580.7	956.6	1013.6
72.5°	544.4	528.4	553.5	669.6	917.9	1061.4	1093.3	1113.8	915.6	751.6	815.4
75°	307.5	291.5	282.4	312.0	362.1	419.1	460.1	473.8	530.7	569.4	603.6
77.5°	93.4	84.3	102.5	136.7	179.9	241.4	293.8	302.9	357.6	403.1	437.3
80°	41.0	45.6	63.8	91.1	127.5	170.8	207.3	220.9	257.4	291.5	300.6
82.5°	25.1	27.3	43.3	61.5	88.8	120.7	148.0	152.6	189.0	216.4	223.2
85°	9.1	11.4	22.8	36.4	56.9	77.4	77.4	84.3	77.4	77.4	84.3
87.5°	0.0	0.0	2.3	4.6	4.6	6.8	9.1	9.1	11.4	13.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1
2.5°	5890.0	5878.6	5860.4	5794.3	5787.5	5767.0	5653.1	5634.9	5653.1	5598.5	5603.0
5°	5878.6	5912.8	5776.1	5710.1	5587.1	5498.2	5395.7	5343.4	5250.0	5190.8	5256.8
7.5°	5928.7	5915.1	5744.2	5600.7	5416.2	5190.8	5010.8	4908.3	4744.3	4698.8	4733.0
10°	5910.5	5837.6	5637.2	5448.1	5099.7	4901.5	4610.0	4327.5	4172.7	4092.9	4081.5
12.5°	5885.4	5864.9	5530.1	5204.4	4837.7	4420.9	4010.9	3744.5	3491.6	3382.3	3398.3
15°	5915.1	5742.0	5329.7	4917.4	4430.0	3883.4	3441.5	3097.6	2922.2	2851.6	2851.6
17.5°	5901.4	5682.7	5234.0	4596.3	3979.1	3332.2	2847.1	2639.8	2566.9	2566.9	2587.4
20°	5908.2	5721.5	5040.4	4275.1	3446.1	2806.1	2453.0	2377.9	2409.8	2421.1	2432.5
22.5°	5946.9	5593.9	4851.4	3922.1	2951.8	2400.6	2227.5	2229.8	2286.8	2348.3	2336.9
25°	5994.8	5543.8	4621.3	3571.4	2573.7	2202.5	2147.8	2141.0	2184.3	2216.2	2220.7
27.5°	5953.8	5457.2	4386.7	3134.0	2264.0	2070.4	2059.0	2063.5	2077.2	2141.0	2120.5
30°	6088.2	5482.3	4092.9	2767.3	2093.2	2027.1	2013.4	2006.6	2027.1	2045.3	2029.4
32.5°	6254.4	5393.5	3874.3	2414.3	2008.9	1995.2	1967.9	1958.8	1970.2	1951.9	1961.1
35°	6327.3	5377.5	3589.6	2161.5	1942.8	1931.4	1915.5	1913.2	1915.5	1899.6	1885.9
37.5°	6368.3	5452.7	3263.9	2045.3	1901.8	1913.2	1876.8	1872.2	1831.2	1840.3	1847.2
40°	6438.9	5336.5	2999.7	1933.7	1876.8	1854.0	1822.1	1815.3	1788.0	1772.0	1788.0
42.5°	6336.4	5302.4	2740.0	1885.9	1840.3	1815.3	1792.5	1753.8	1744.7	1731.0	1721.9
45°	6254.4	5106.5	2507.7	1826.7	1797.1	1783.4	1740.1	1699.1	1665.0	1678.6	1658.1
47.5°	6315.9	5038.2	2277.6	1776.6	1737.8	1721.9	1678.6	1646.7	1612.6	1596.6	1592.1
50°	6561.9	5165.7	2084.0	1740.1	1687.7	1678.6	1621.7	1585.2	1553.4	1542.0	1546.5
52.5°	7149.5	5514.2	1951.9	1665.0	1639.9	1598.9	1567.0	1521.5	1501.0	1464.5	1487.3
55°	7894.3	6081.3	1917.8	1594.4	1580.7	1544.2	1501.0	1466.8	1428.1	1398.5	1391.6
56°	8133.5	6352.4	1890.4	1567.0	1544.2	1523.7	1466.8	1446.3	1384.8	1378.0	1373.4
57.5°	8327.1	6591.5	1895.0	1514.6	1491.9	1473.6	1439.5	1389.4	1348.4	1323.3	1334.7
60°	7889.8	6170.1	1808.5	1434.9	1430.4	1396.2	1348.4	1325.6	1275.5	1245.9	1239.0
62.5°	5864.9	4188.6	1466.8	1332.4	1330.1	1293.7	1239.0	1214.0	1204.9	1163.9	1163.9
65°	3377.8	2626.1	1268.6	1248.2	1229.9	1193.5	1138.8	1118.3	1095.5	1081.9	1070.5
67.5°	1441.8	1362.0	1152.5	1150.2	1129.7	1084.2	1029.5	997.6	968.0	940.7	954.3
70°	1045.4	1061.4	1040.9	1029.5	1004.4	947.5	899.7	861.0	815.4	797.2	810.8
72.5°	829.1	863.2	892.8	895.1	865.5	799.5	747.1	694.7	644.6	619.5	630.9
75°	628.6	651.4	681.0	687.8	644.6	599.0	548.9	494.2	455.5	425.9	430.5
77.5°	453.3	448.7	476.0	471.5	451.0	419.1	373.5	323.4	280.2	252.8	255.1
80°	309.8	316.6	332.5	330.3	305.2	284.7	250.5	209.5	177.7	154.9	150.3
82.5°	216.4	227.8	241.4	230.0	209.5	189.0	164.0	134.4	109.3	91.1	86.6
85°	77.4	88.8	102.5	109.3	116.2	111.6	93.4	75.2	54.7	45.6	43.3
87.5°	15.9	18.2	20.5	20.5	20.5	18.2	15.9	15.9	13.7	6.8	6.8
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)