

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: P529480

Luminaire Tested: **GALN-SA4C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529480
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-SA4C-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 17329 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

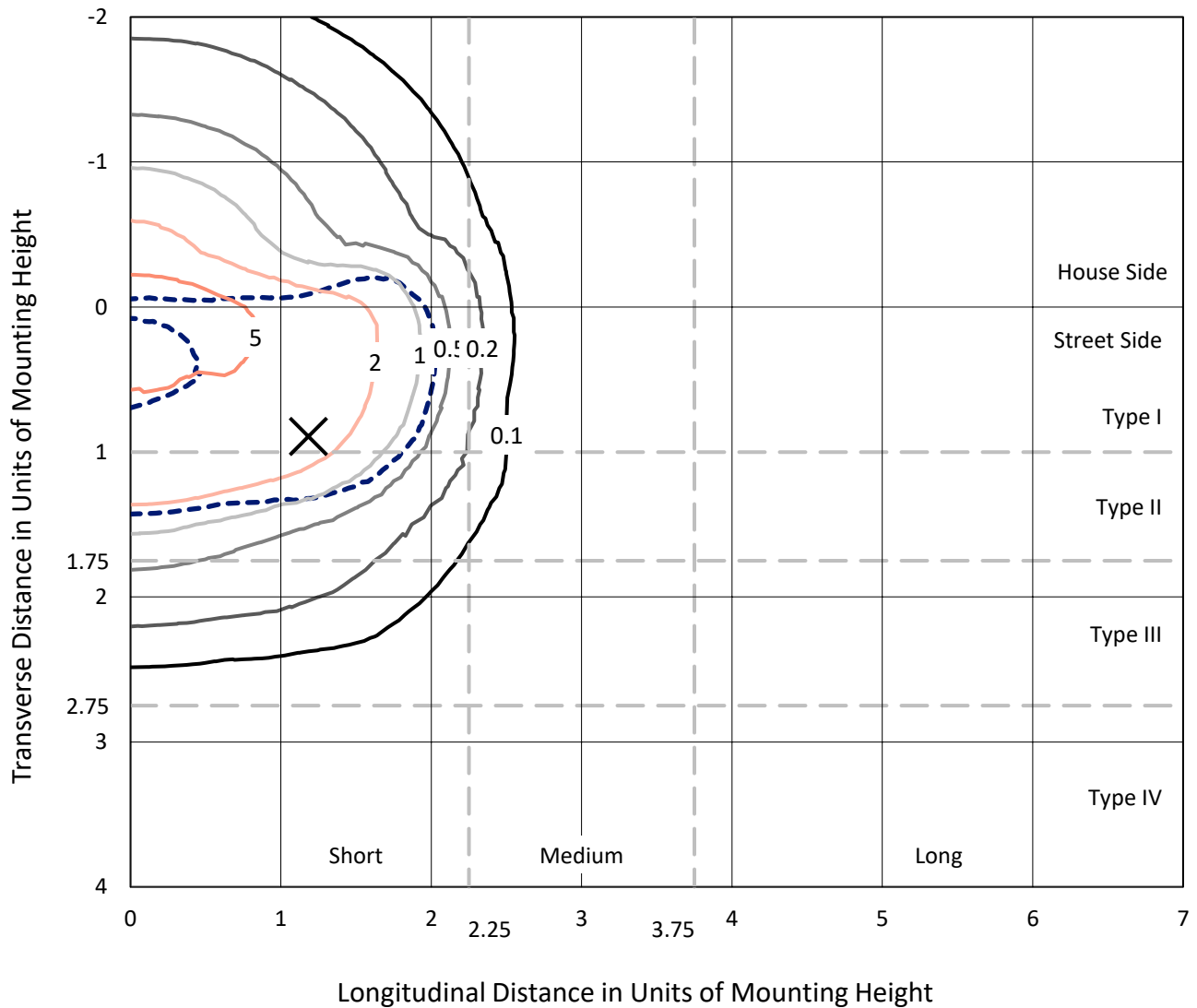
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

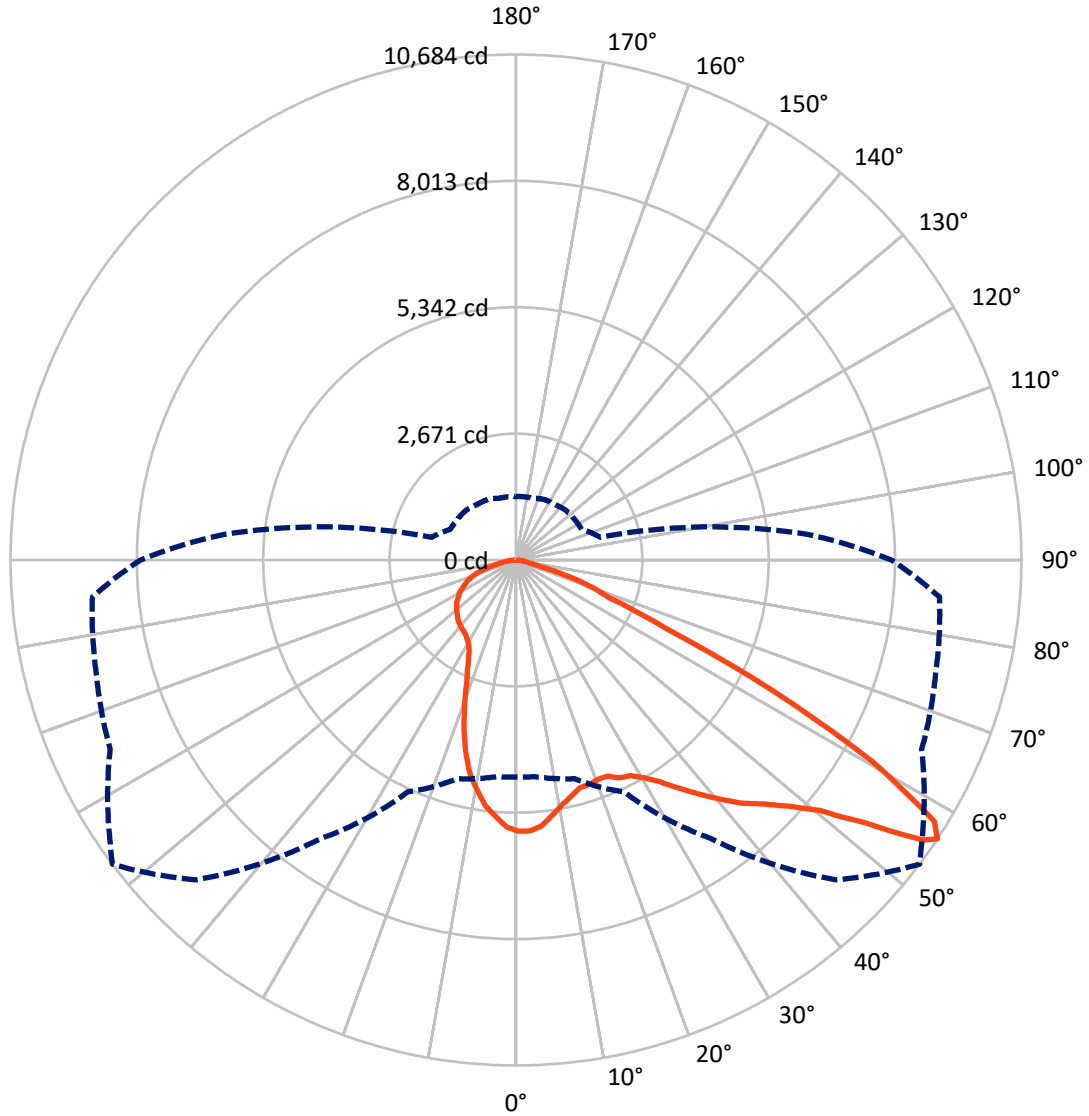
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	5057.0	0.0	5057.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12272.0	0.0	12272.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	17329.0	0.0	17329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.5	2.9
10°-20°	1267.6	7.3
20°-30°	1869.2	10.8
30°-40°	2670.8	15.4
40°-50°	3675.9	21.2
50°-60°	4344.0	25.1
60°-70°	2315.1	13.4
70°-80°	587.3	3.4
80°-90°	91.6	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°	17329.0	100.0
0°-180°	17329.0	100.0

Coefficient of Utilization



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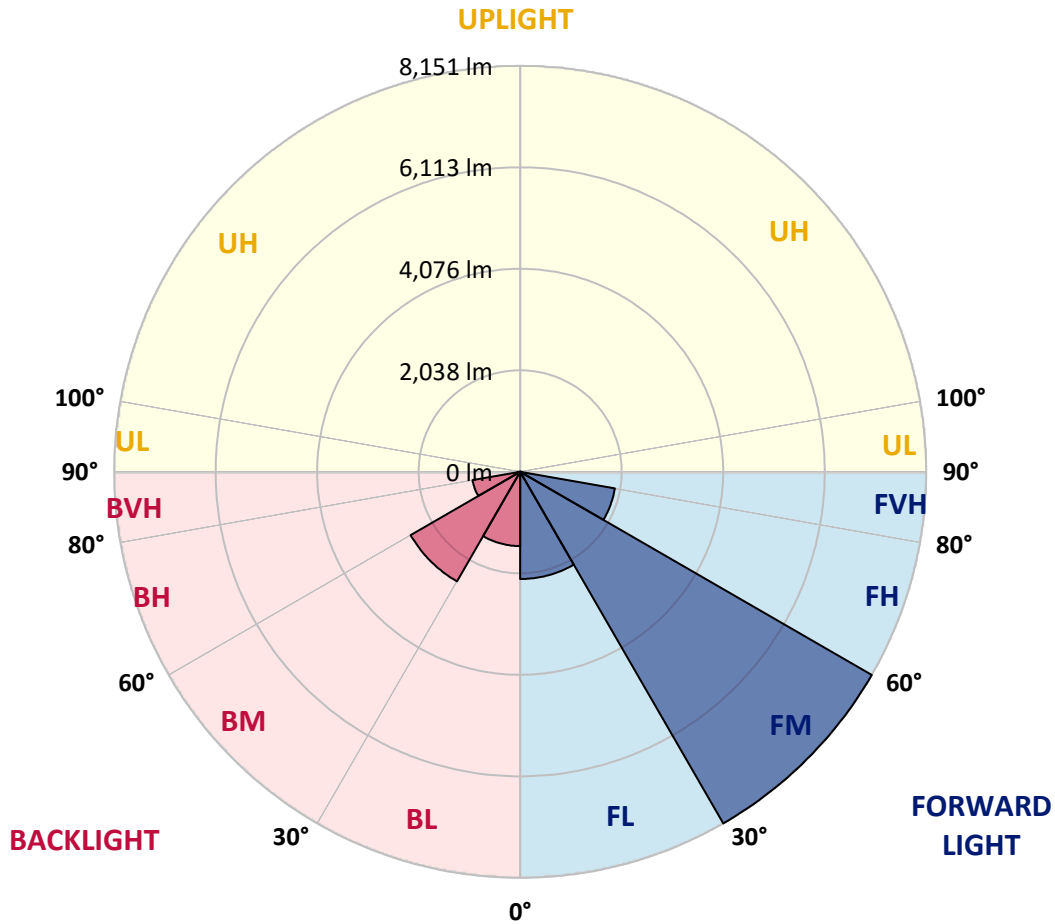
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.9	12.4			
FM (30°-60°)	8151.2	47.0			
FH (60°-80°)	1931.1	11.1			G2/5000
FVH (80°-90°)	36.8	0.2			G1/100
BL (0°-30°)	1491.5	8.6	B3/2500		
BM (30°-60°)	2539.4	14.7	B3/5000		
BH (60°-80°)	971.3	5.6	B2/1000		G2/1000
BVH (80°-90°)	54.8	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°	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1
2.5°	5662.0	5613.1	5642.0	5630.9	5722.0	5748.7	5735.3	5746.5	5797.6	5773.1	5722.0
5°	5290.7	5359.7	5373.0	5406.3	5459.7	5564.2	5646.4	5668.6	5693.1	5806.5	5795.4
7.5°	4952.8	4999.5	4975.1	5072.9	5188.5	5357.4	5457.5	5475.2	5699.8	5762.0	5808.7
10°	4739.4	4692.8	4803.9	4830.6	4961.7	5155.1	5275.2	5348.5	5553.1	5799.8	5828.7
12.5°	4541.6	4526.0	4592.7	4668.3	4815.0	5015.1	5137.4	5166.3	5481.9	5742.0	5877.6
15°	4394.9	4377.1	4443.8	4499.4	4670.5	4848.4	5004.0	5086.2	5404.1	5708.7	5835.4
17.5°	4279.3	4277.1	4314.8	4414.9	4590.5	4739.4	4990.6	4995.1	5364.1	5759.8	5870.9
20°	4272.6	4270.4	4277.1	4388.2	4548.3	4730.5	4948.4	4988.4	5364.1	5724.2	5873.2
22.5°	4328.2	4292.6	4332.6	4403.8	4519.4	4746.1	4964.0	5052.9	5493.0	5899.8	5973.2
25°	4417.1	4426.0	4448.2	4472.7	4539.4	4781.7	5101.8	5175.1	5644.2	6051.0	6111.0
27.5°	4579.4	4574.9	4583.8	4597.2	4655.0	4815.0	5157.4	5346.3	5959.9	6320.0	6260.0
30°	4817.2	4801.7	4837.2	4883.9	4830.6	4921.7	5341.9	5484.1	6253.3	6591.2	6426.7
32.5°	5032.9	5090.7	5157.4	5177.4	5112.9	5130.7	5586.4	5730.9	6497.8	6924.6	6631.2
35°	5301.9	5348.5	5437.5	5499.7	5488.6	5435.2	5919.8	6111.0	6851.3	7169.2	6846.8
37.5°	5564.2	5619.7	5766.5	5951.0	5848.7	5824.3	6275.5	6433.4	6960.2	7300.3	7004.7
40°	5986.5	5984.3	6237.7	6333.3	6424.5	6382.2	6644.5	6697.9	7018.0	7271.4	7009.1
42.5°	6482.3	6451.1	6709.0	6858.0	6975.8	6980.2	7029.1	7011.3	7044.7	7124.7	6962.4
45°	6953.5	7020.2	7280.3	7547.1	7664.9	7678.2	7353.7	7320.3	7091.4	7082.5	6873.5
47.5°	7529.3	7544.9	7758.3	8109.5	8382.9	8289.6	7773.8	7700.5	7295.9	7364.8	7022.5
50°	7562.6	7678.2	7869.4	8282.9	9123.2	9098.7	8318.5	8180.6	7624.9	7764.9	7438.2
52.5°	6864.6	6837.9	7064.7	7740.5	9067.6	9903.5	9221.0	8892.0	8331.8	8225.1	8111.7
55°	5230.7	5293.0	5493.0	6175.5	7873.9	9914.6	10450.3	10181.3	9087.6	8905.3	8774.2
56°	4588.3	4597.2	4786.1	5408.6	7184.7	9561.1	10683.7	10465.9	9463.3	9185.4	8985.4
57.5°	3803.6	3752.4	3850.2	4190.4	6064.3	8814.2	10428.1	10641.5	9903.5	9487.8	9209.9
60°	2994.4	2983.3	2943.3	3005.5	3832.5	6640.1	8680.8	9161.0	9859.0	9203.2	8820.9
62.5°	2445.3	2389.7	2469.8	2558.7	2663.2	4119.2	6099.9	6382.2	7827.2	7347.0	6626.8
65°	1896.2	1869.5	1969.6	2258.6	2320.8	2616.5	3474.5	3692.4	4621.6	4539.4	3997.0
67.5°	1304.9	1309.3	1396.0	1836.2	2151.9	2125.2	2127.4	2240.8	2412.0	1791.7	1560.5
70°	827.0	824.7	871.4	1182.6	1731.7	1749.5	1660.6	1627.2	1542.8	933.7	989.2
72.5°	531.3	515.7	540.2	653.6	895.9	1035.9	1067.0	1087.0	893.6	733.6	795.8
75°	300.1	284.5	275.7	304.6	353.5	409.0	449.0	462.4	518.0	555.7	589.1
77.5°	91.1	82.3	100.0	133.4	175.6	235.6	286.8	295.7	349.0	393.5	426.8
80°	40.0	44.5	62.2	88.9	124.5	166.7	202.3	215.6	251.2	284.5	293.4
82.5°	24.5	26.7	42.2	60.0	86.7	117.8	144.5	148.9	184.5	211.2	217.9
85°	8.9	11.1	22.2	35.6	55.6	75.6	75.6	82.3	75.6	75.6	82.3
87.5°	0.0	0.0	2.2	4.4	4.4	6.7	8.9	8.9	11.1	13.3	15.6
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°	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1	5733.1
2.5°	5748.7	5737.6	5719.8	5655.3	5648.6	5628.6	5517.5	5499.7	5517.5	5464.1	5468.6
5°	5737.6	5770.9	5637.5	5573.1	5453.0	5366.3	5266.3	5215.2	5124.0	5066.2	5130.7
7.5°	5786.5	5773.1	5606.4	5466.4	5286.3	5066.2	4890.6	4790.6	4630.5	4586.0	4619.4
10°	5768.7	5697.5	5501.9	5317.4	4977.3	4783.9	4499.4	4223.7	4072.5	3994.7	3983.6
12.5°	5744.2	5724.2	5397.4	5079.6	4721.7	4314.8	3914.7	3654.6	3407.9	3301.2	3316.7
15°	5773.1	5604.2	5201.8	4799.5	4323.7	3790.2	3359.0	3023.3	2852.1	2783.2	2783.2
17.5°	5759.8	5546.4	5108.5	4486.0	3883.6	3252.2	2778.7	2576.5	2505.3	2505.3	2525.3
20°	5766.5	5584.2	4919.5	4172.6	3363.4	2738.7	2394.2	2320.8	2351.9	2363.0	2374.2
22.5°	5804.3	5459.7	4735.0	3828.0	2881.0	2343.0	2174.1	2176.3	2231.9	2291.9	2280.8
25°	5850.9	5410.8	4510.5	3485.7	2512.0	2149.6	2096.3	2089.6	2131.9	2163.0	2167.4
27.5°	5810.9	5326.3	4281.5	3058.8	2209.7	2020.7	2009.6	2014.0	2027.4	2089.6	2069.6
30°	5942.1	5350.8	3994.7	2700.9	2042.9	1978.5	1965.1	1958.5	1978.5	1996.3	1980.7
32.5°	6104.4	5264.1	3781.3	2356.4	1960.7	1947.3	1920.7	1911.8	1922.9	1905.1	1914.0
35°	6175.5	5248.5	3503.4	2109.6	1896.2	1885.1	1869.5	1867.3	1869.5	1854.0	1840.6
37.5°	6215.5	5321.9	3185.6	1996.3	1856.2	1867.3	1831.8	1827.3	1787.3	1796.2	1802.9
40°	6284.4	5208.5	2927.7	1887.3	1831.8	1809.5	1778.4	1771.7	1745.1	1729.5	1745.1
42.5°	6184.4	5175.1	2674.3	1840.6	1796.2	1771.7	1749.5	1711.7	1702.8	1689.5	1680.6
45°	6104.4	4984.0	2447.5	1782.8	1753.9	1740.6	1698.4	1658.4	1625.0	1638.4	1618.3
47.5°	6164.4	4917.3	2223.0	1733.9	1696.1	1680.6	1638.4	1607.2	1573.9	1558.3	1553.9
50°	6404.5	5041.8	2034.0	1698.4	1647.2	1638.4	1582.8	1547.2	1516.1	1505.0	1509.4
52.5°	6978.0	5381.9	1905.1	1625.0	1600.6	1560.5	1529.4	1485.0	1465.0	1429.4	1451.6
55°	7704.9	5935.4	1871.8	1556.1	1542.8	1507.2	1465.0	1431.6	1393.8	1364.9	1358.3
56°	7938.3	6199.9	1845.1	1529.4	1507.2	1487.2	1431.6	1411.6	1351.6	1344.9	1340.5
57.5°	8127.3	6433.4	1849.5	1478.3	1456.1	1438.3	1404.9	1356.0	1316.0	1291.6	1302.7
60°	7700.5	6022.1	1765.1	1400.5	1396.0	1362.7	1316.0	1293.8	1244.9	1216.0	1209.3
62.5°	5724.2	4088.1	1431.6	1300.5	1298.2	1262.7	1209.3	1184.9	1176.0	1136.0	1136.0
65°	3296.7	2563.1	1238.2	1218.2	1200.4	1164.9	1111.5	1091.5	1069.3	1055.9	1044.8
67.5°	1407.2	1329.4	1124.8	1122.6	1102.6	1058.1	1004.8	973.7	944.8	918.1	931.4
70°	1020.4	1035.9	1015.9	1004.8	980.3	924.8	878.1	840.3	795.8	778.0	791.4
72.5°	809.2	842.5	871.4	873.6	844.7	780.3	729.1	678.0	629.1	604.7	615.8
75°	613.5	635.8	664.7	671.3	629.1	584.6	535.7	482.4	444.6	415.7	420.1
77.5°	442.4	437.9	464.6	460.2	440.2	409.0	364.6	315.7	273.4	246.8	249.0
80°	302.3	309.0	324.6	322.3	297.9	277.9	244.5	204.5	173.4	151.2	146.7
82.5°	211.2	222.3	235.6	224.5	204.5	184.5	160.1	131.2	106.7	88.9	84.5
85°	75.6	86.7	100.0	106.7	113.4	108.9	91.1	73.4	53.4	44.5	42.2
87.5°	15.6	17.8	20.0	20.0	20.0	17.8	15.6	15.6	13.3	6.7	6.7
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)