

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: P529872

Luminaire Tested: **GALN-SA5A-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-740-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19374 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

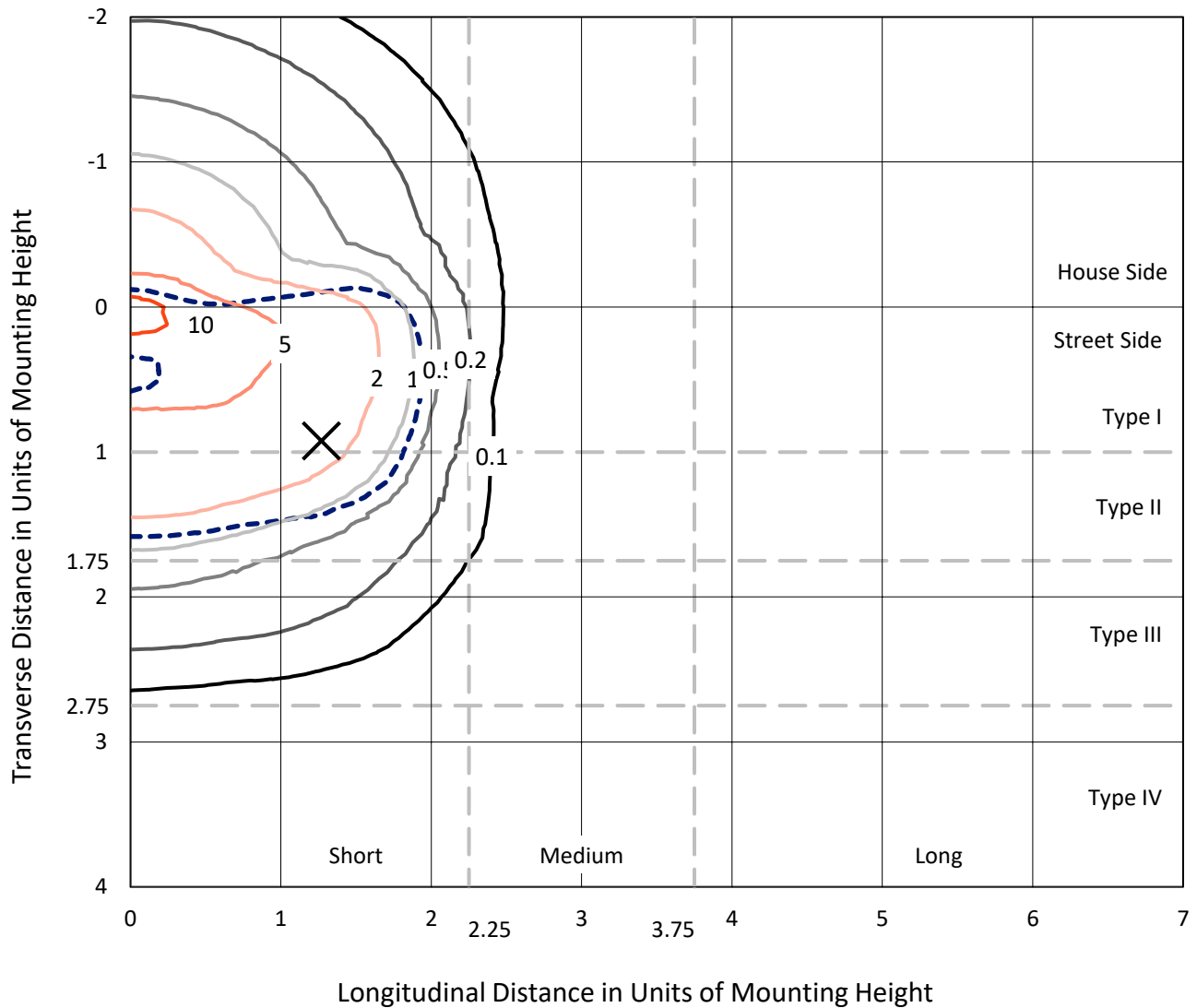
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

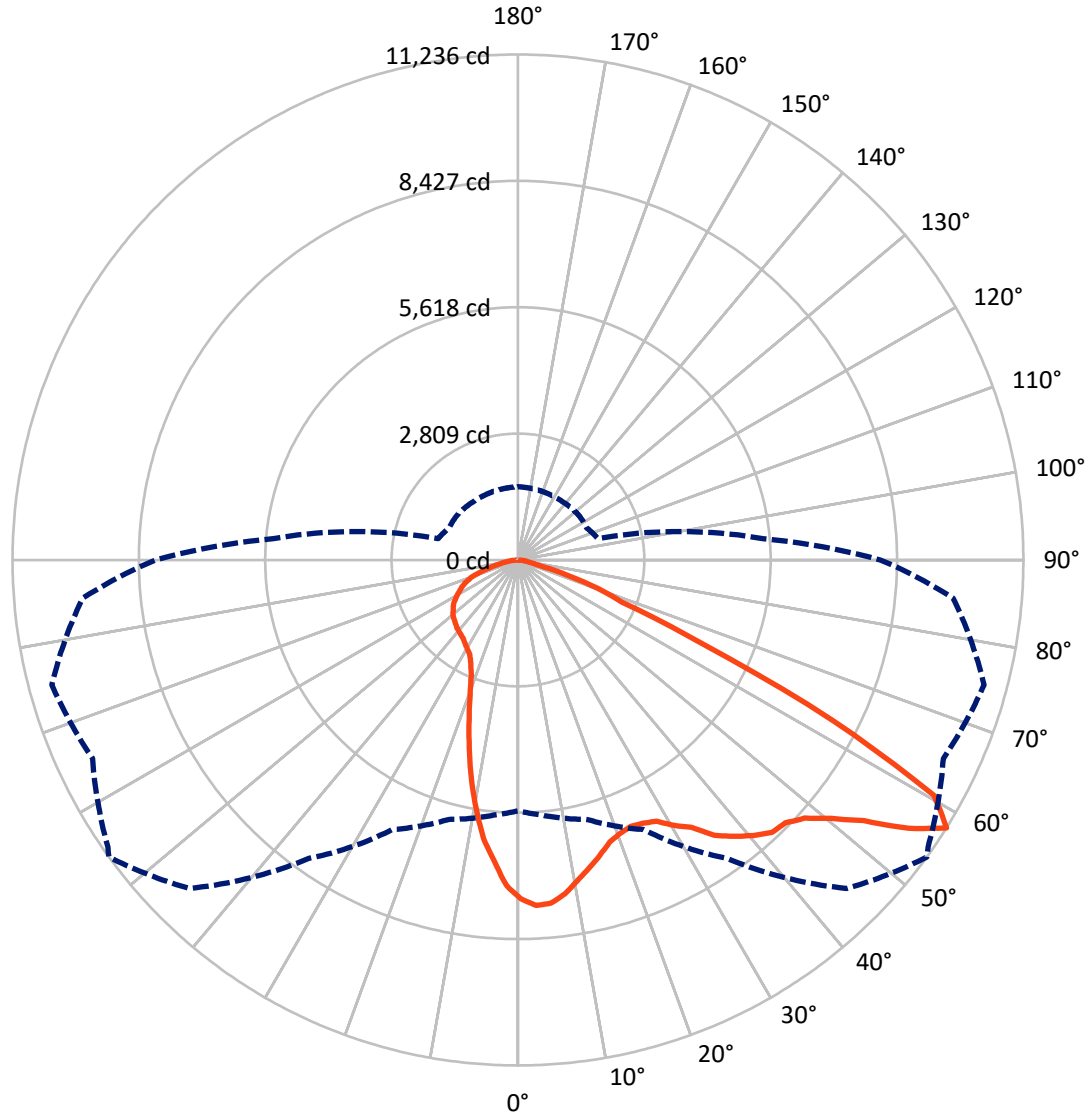
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5359.9	0.0	5359.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	14014.1	0.0	14014.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	19374.0	0.0	19374.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.4	3.4
10°-20°	1503.7	7.8
20°-30°	2112.7	10.9
30°-40°	2953.5	15.2
40°-50°	3998.5	20.6
50°-60°	4870.4	25.1
60°-70°	2536.7	13.1
70°-80°	650.0	3.4
80°-90°	99.1	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°	19374.0	100.0
0°-180°	19374.0	100.0

**Coefficient of Utilization**



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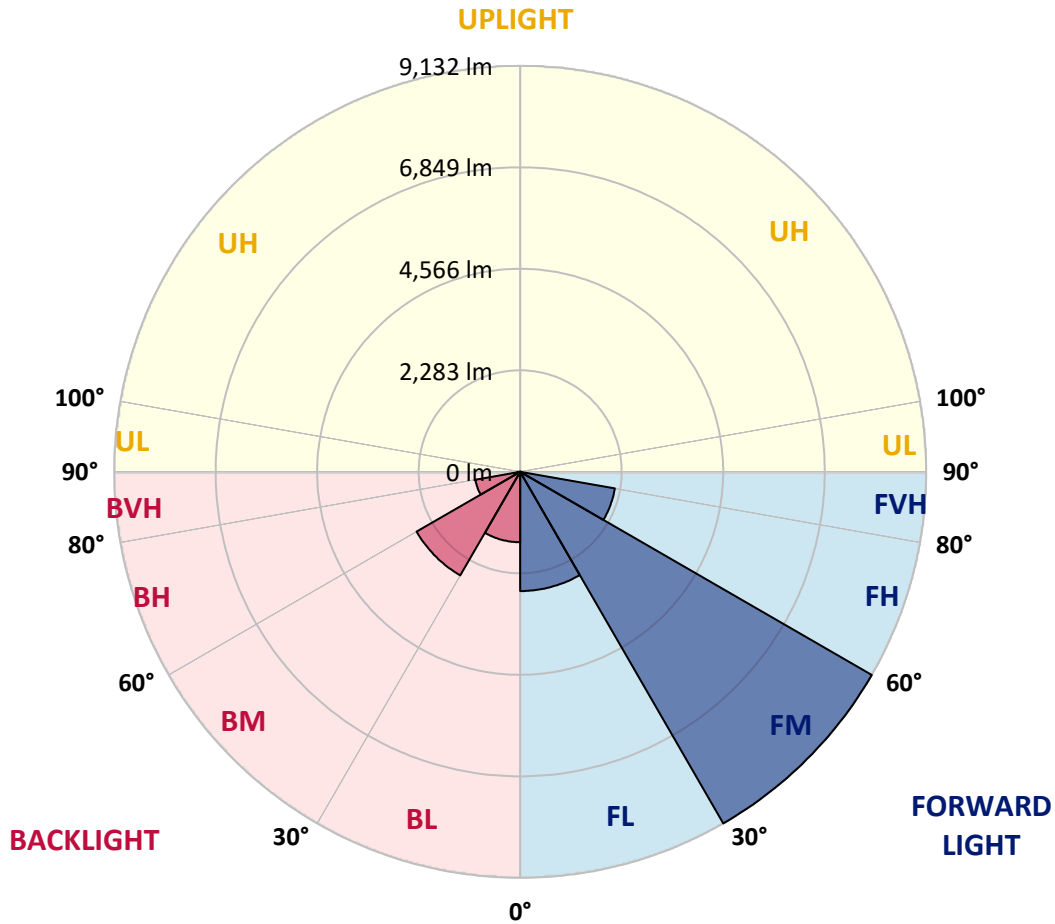
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.6	13.8			
FM (30°-60°)	9132.3	47.1			
FH (60°-80°)	2162.7	11.2			G2/5000
FVH (80°-90°)	37.5	0.2			G1/100
BL (0°-30°)	1584.1	8.2	B3/2500		
BM (30°-60°)	2690.1	13.9	B3/5000		
BH (60°-80°)	1024.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	61.7	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5
2.5°	7744.6	7714.7	7719.7	7759.6	7709.7	7689.8	7689.8	7592.7	7600.2	7532.9	7515.5
5°	7565.3	7495.6	7542.9	7602.7	7612.6	7632.6	7664.9	7640.0	7570.3	7498.1	7381.0
7.5°	7097.2	7159.4	7176.8	7219.2	7308.8	7391.0	7493.1	7423.4	7420.9	7348.7	7278.9
10°	6686.3	6648.9	6743.5	6805.8	6955.2	7092.2	7249.1	7241.6	7278.9	7196.8	7077.2
12.5°	6277.9	6248.0	6292.8	6434.8	6643.9	6843.1	7029.9	6960.2	7159.4	7144.5	6888.0
15°	5844.6	5867.0	5931.7	6063.7	6337.6	6576.7	6813.3	6815.8	6992.6	7052.3	6708.7
17.5°	5540.8	5515.9	5598.0	5794.8	6038.8	6325.2	6594.1	6648.9	6920.3	6955.2	6653.9
20°	5314.1	5349.0	5456.1	5555.7	5837.1	6183.2	6487.0	6507.0	6905.4	7000.0	6566.7
22.5°	5259.4	5239.4	5274.3	5436.2	5667.8	6043.8	6429.8	6504.5	6902.9	6985.1	6402.4
25°	5202.1	5266.8	5264.3	5426.2	5595.5	5931.7	6477.1	6559.3	7034.9	7062.3	6424.8
27.5°	5331.6	5324.1	5393.8	5406.3	5615.5	5961.6	6576.7	6638.9	7254.0	7231.6	6442.2
30°	5461.1	5423.7	5466.1	5613.0	5710.1	6133.4	6850.6	6845.6	7537.9	7523.0	6497.0
32.5°	5620.4	5603.0	5630.4	5759.9	5924.3	6362.5	7082.2	7229.1	7826.8	7921.4	6686.3
35°	5650.3	5722.5	5787.3	5961.6	6195.7	6733.6	7518.0	7640.0	8160.5	8456.8	7047.3
37.5°	5839.6	5867.0	6018.9	6327.7	6541.8	7229.1	7794.4	7871.6	8464.3	8800.5	7428.4
40°	6041.3	6073.7	6302.8	6626.5	6920.3	7552.9	8053.4	8078.3	8561.4	9064.4	7677.4
42.5°	6315.2	6345.1	6571.7	6977.6	7371.1	7829.3	8282.5	8309.9	8553.9	9368.2	8073.3
45°	6599.1	6671.3	6937.8	7398.5	7752.1	8153.0	8334.8	8446.9	8623.7	9639.7	8394.6
47.5°	6997.5	7064.8	7283.9	7734.7	8148.0	8436.9	8576.3	8685.9	8790.5	9876.2	8601.3
50°	7420.9	7433.3	7699.8	8108.2	8412.0	8758.1	9027.1	9064.4	9009.6	10150.2	8952.4
52.5°	7732.2	7772.0	7978.7	8377.1	8830.4	9256.2	9624.7	9664.6	9557.5	10252.3	9071.9
55°	7216.7	7194.3	7530.5	8060.9	9111.7	9998.3	10533.7	10563.6	9955.9	10568.5	9462.9
57.5°	5578.1	5685.2	5971.6	6611.6	8095.7	10327.0	11235.9	11128.8	10434.1	10727.9	9711.9
60°	4054.1	4029.2	4220.9	4649.3	6101.1	8900.1	10623.3	10732.9	10043.1	9669.6	8008.6
62.5°	3302.0	3267.2	3282.1	3297.1	3937.1	5906.8	7864.1	7861.7	7734.7	6950.2	5401.3
65°	2639.6	2721.8	2729.3	2841.4	2923.5	3528.7	4557.1	4801.2	4181.1	3429.0	2487.7
67.5°	1989.7	1959.8	2059.4	2457.9	2612.3	2547.5	2487.7	2515.1	1788.0	1289.9	1215.2
70°	1172.9	1160.4	1280.0	1713.3	2151.6	2024.6	1875.1	1877.6	1227.7	901.5	1003.6
72.5°	642.5	640.0	664.9	869.1	1222.7	1270.0	1125.6	1160.4	732.1	729.6	784.4
75°	358.6	351.1	343.7	383.5	440.8	465.7	475.6	480.6	503.0	562.8	585.2
77.5°	132.0	127.0	127.0	146.9	186.8	234.1	296.3	301.3	356.1	408.4	430.8
80°	44.8	49.8	67.2	92.1	124.5	166.8	201.7	206.7	251.5	286.4	293.8
82.5°	27.4	29.9	44.8	64.7	89.6	117.0	149.4	151.9	186.8	209.2	219.1
85°	12.5	14.9	24.9	39.8	57.3	77.2	79.7	79.7	77.2	79.7	74.7
87.5°	0.0	0.0	5.0	5.0	5.0	7.5	10.0	7.5	12.5	14.9	14.9
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°	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5	7530.5
2.5°	7463.2	7435.8	7351.2	7276.4	7254.0	7154.4	7007.5	7024.9	6917.9	6967.7	6915.4
5°	7361.1	7269.0	7052.3	6960.2	6718.6	6609.1	6534.4	6347.6	6260.4	6243.0	6168.3
7.5°	7099.6	7042.4	6770.9	6521.9	6265.4	6046.3	5764.9	5573.1	5436.2	5398.8	5289.2
10°	6893.0	6766.0	6389.9	6011.4	5645.3	5264.3	4898.3	4611.9	4472.5	4310.6	4255.8
12.5°	6688.8	6497.0	5989.0	5503.4	5030.3	4549.6	4106.4	3757.8	3453.9	3381.7	3356.8
15°	6561.8	6228.1	5630.4	5045.2	4372.8	3745.3	3302.0	3072.9	2886.2	2809.0	2863.8
17.5°	6394.9	6006.4	5286.8	4507.3	3767.7	3190.0	2818.9	2677.0	2609.8	2617.2	2594.8
20°	6185.7	5797.3	4836.0	4019.2	3227.3	2766.6	2555.0	2502.7	2512.6	2530.1	2522.6
22.5°	6036.3	5543.2	4509.8	3521.2	2789.1	2532.6	2445.4	2408.1	2440.4	2455.4	2442.9
25°	5921.8	5326.6	4113.9	3080.4	2535.1	2400.6	2360.7	2358.2	2408.1	2428.0	2415.5
27.5°	5817.2	5124.9	3720.4	2744.2	2365.7	2298.5	2286.0	2315.9	2348.3	2368.2	2385.6
30°	5754.9	4970.5	3351.8	2462.8	2281.0	2248.7	2226.3	2253.7	2271.1	2291.0	2281.0
32.5°	5814.7	4860.9	2995.7	2303.5	2211.3	2179.0	2208.8	2191.4	2221.3	2238.7	2211.3
35°	6001.5	4763.8	2741.7	2218.8	2131.6	2144.1	2149.1	2141.6	2154.0	2139.1	2171.5
37.5°	6185.7	4728.9	2507.7	2146.6	2094.3	2094.3	2089.3	2074.4	2099.3	2094.3	2109.2
40°	6419.8	4751.4	2308.4	2069.4	2059.4	2054.4	2034.5	2032.0	2022.1	2024.6	2029.5
42.5°	6624.0	4801.2	2193.9	2019.6	2027.0	2037.0	1999.7	1969.8	1982.2	1957.3	1957.3
45°	6840.7	4846.0	2091.8	1984.7	1977.2	1974.8	1944.9	1927.4	1917.5	1920.0	1942.4
47.5°	7181.8	4910.7	2014.6	1937.4	1942.4	1905.0	1897.6	1875.1	1885.1	1900.0	1902.5
50°	7423.4	5047.7	1954.8	1882.6	1900.0	1875.1	1830.3	1820.4	1820.4	1845.3	1840.3
52.5°	7592.7	5239.4	1897.6	1822.8	1830.3	1810.4	1795.5	1773.0	1758.1	1793.0	1810.4
55°	8110.7	5558.2	1882.6	1773.0	1770.6	1750.6	1723.2	1700.8	1693.4	1698.3	1733.2
57.5°	8060.9	5458.6	1835.3	1685.9	1680.9	1653.5	1626.1	1618.6	1616.2	1621.1	1631.1
60°	6544.3	4031.7	1638.6	1586.3	1578.8	1573.8	1546.4	1516.5	1501.6	1516.5	1504.1
62.5°	4330.5	2699.4	1444.3	1466.7	1471.7	1459.3	1414.4	1384.6	1389.5	1407.0	1379.6
65°	2126.7	1586.3	1309.9	1369.6	1374.6	1339.7	1297.4	1262.5	1245.1	1260.1	1247.6
67.5°	1215.2	1212.7	1200.3	1262.5	1260.1	1225.2	1158.0	1128.1	1098.2	1103.2	1095.7
70°	1031.0	1050.9	1075.8	1113.1	1110.6	1070.8	991.1	968.7	926.4	921.4	908.9
72.5°	811.8	846.7	901.5	928.9	906.4	856.6	804.3	767.0	729.6	707.2	714.7
75°	602.6	652.4	682.3	699.8	664.9	637.5	595.2	550.3	505.5	485.6	478.1
77.5°	438.3	453.2	480.6	493.1	470.7	443.3	418.4	373.5	331.2	303.8	296.3
80°	306.3	316.3	336.2	336.2	336.2	323.7	291.4	246.5	219.1	194.2	189.3
82.5°	214.2	224.1	244.0	234.1	231.6	216.6	196.7	161.9	132.0	114.6	109.6
85°	74.7	82.2	99.6	119.5	127.0	124.5	112.1	89.6	69.7	57.3	52.3
87.5°	17.4	17.4	19.9	17.4	17.4	19.9	17.4	17.4	17.4	12.5	10.0
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)