

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: P531469

Luminaire Tested: **GALN-SA6D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25408 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

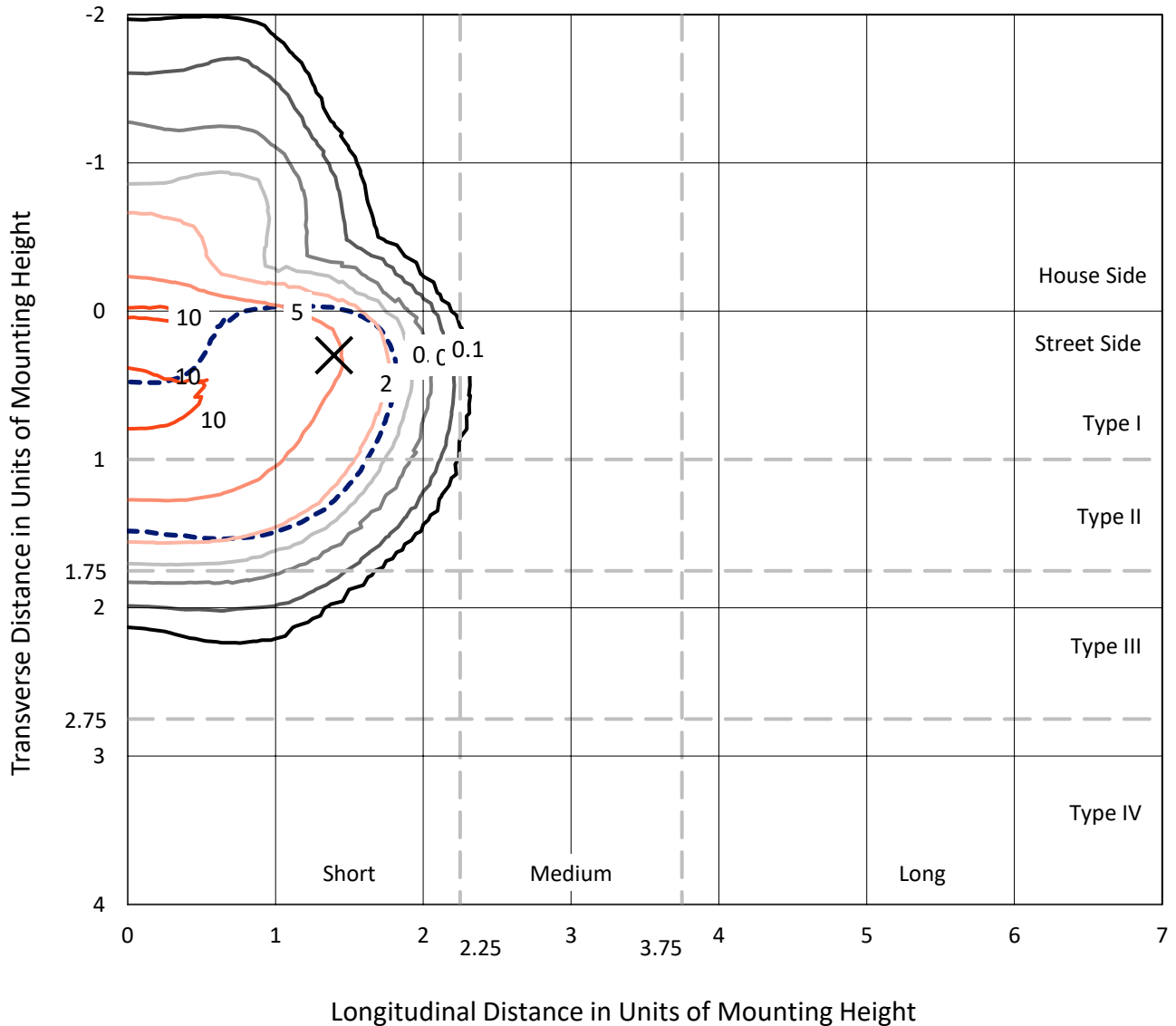
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

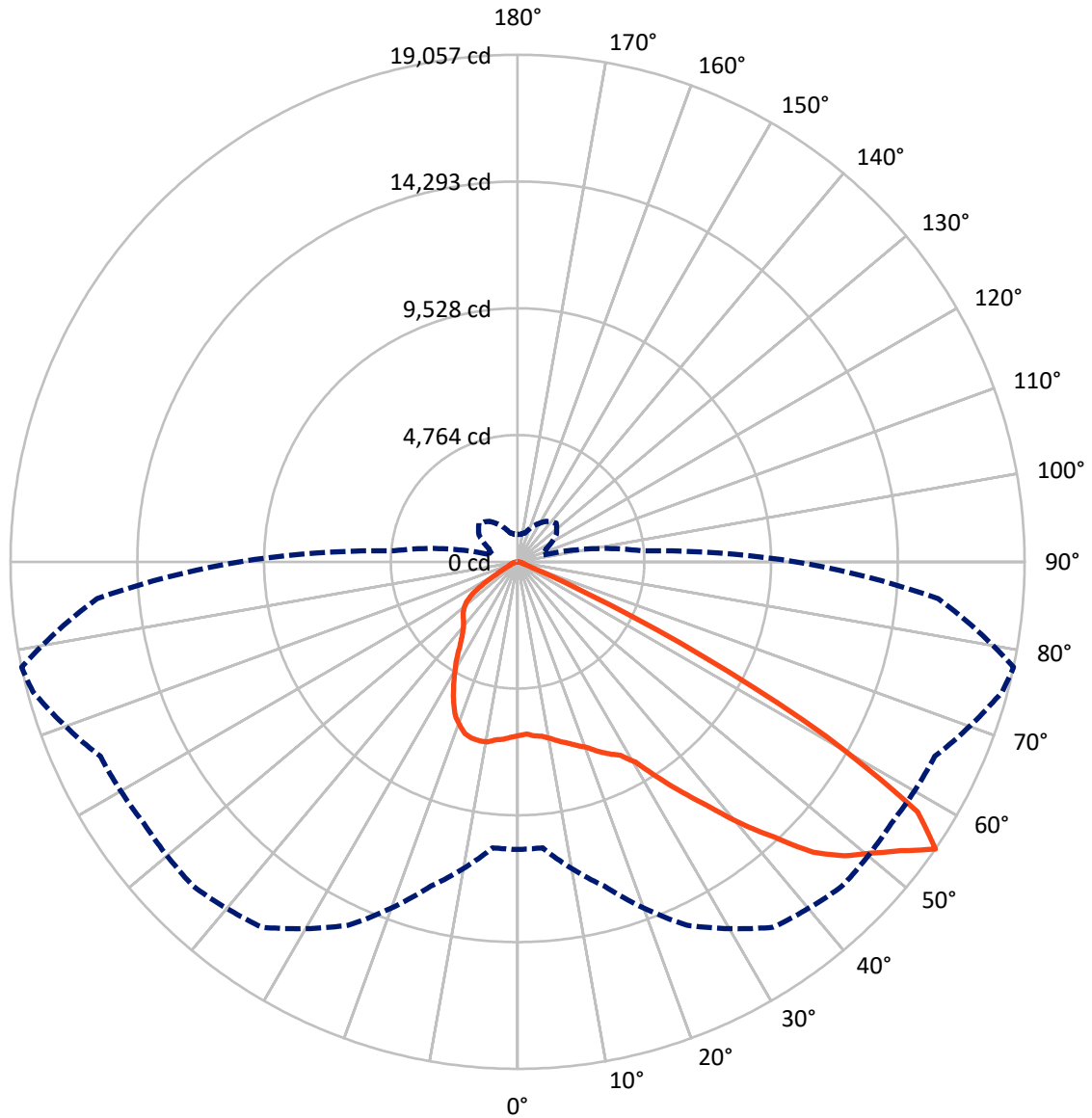
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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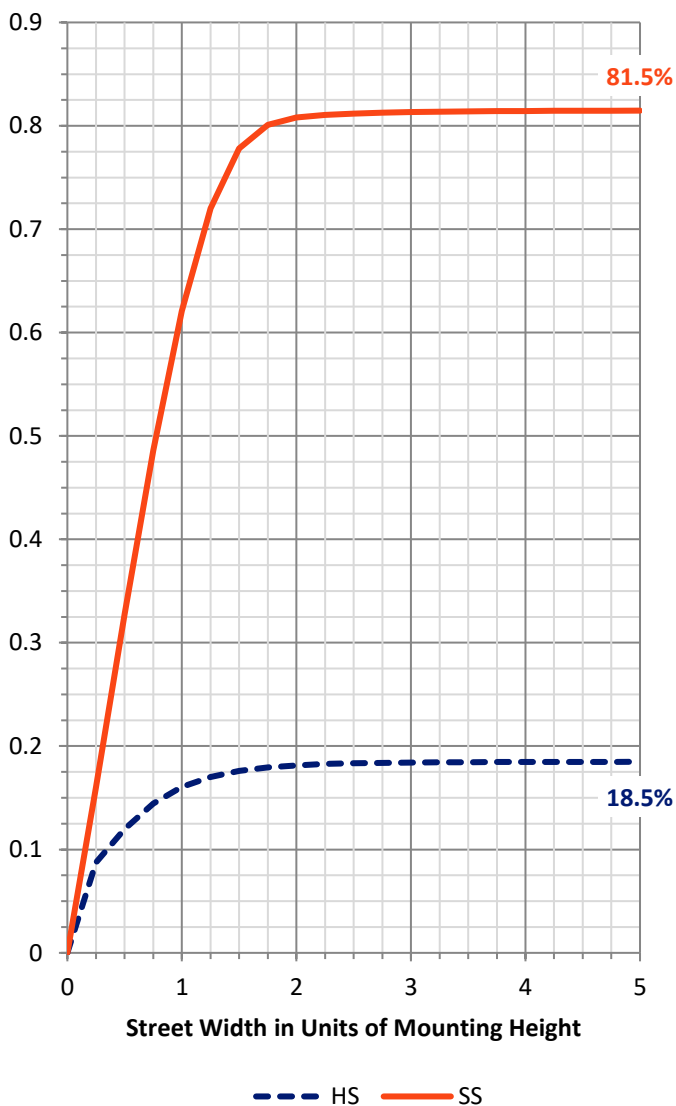
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4719.3	0.0	4719.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	20688.7	0.0	20688.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	25408.0	0.0	25408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.5	2.3
10°-20°	1541.5	6.1
20°-30°	2702.1	10.6
30°-40°	4455.4	17.5
40°-50°	6483.1	25.5
50°-60°	7346.0	28.9
60°-70°	2100.4	8.3
70°-80°	163.1	0.6
80°-90°	33.9	0.1
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°	25408.0	100.0
0°-180°	25408.0	100.0

**Coefficient of Utilization**

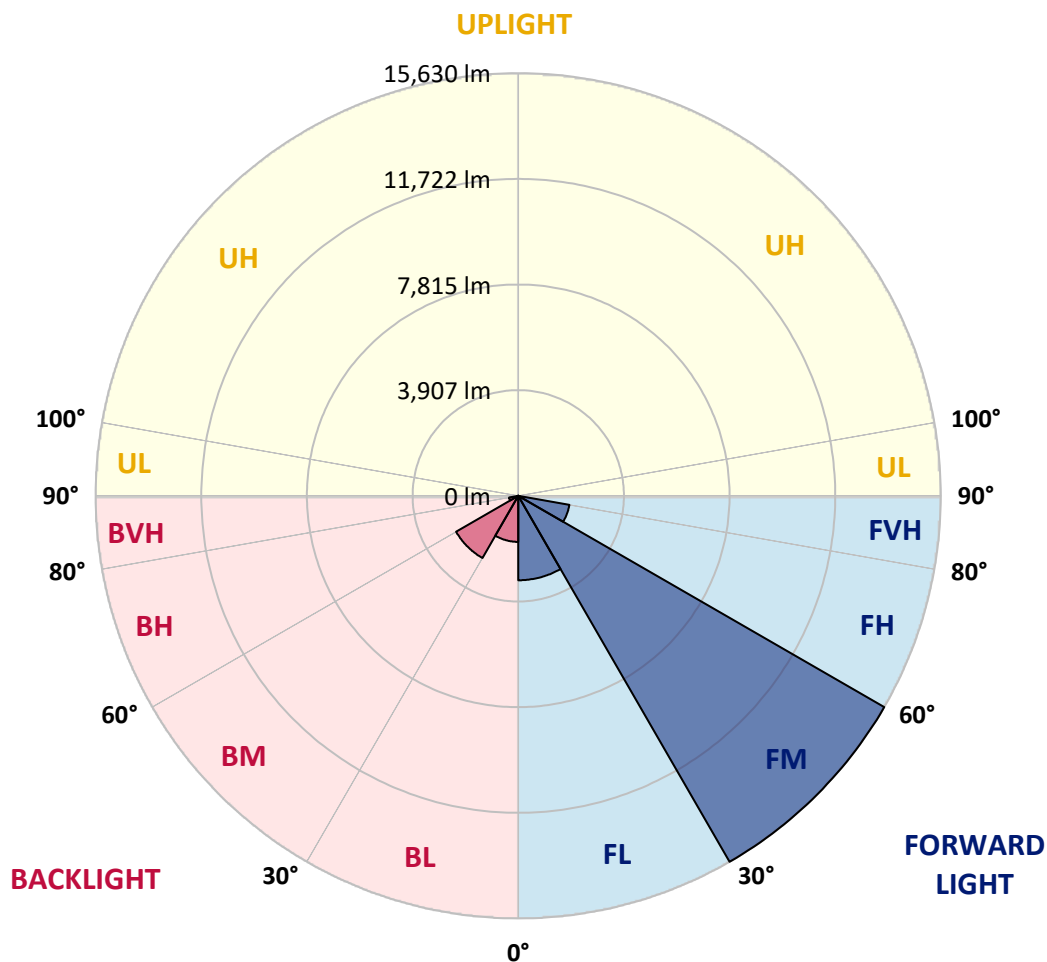


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3123.4	12.3			
FM (30°-60°)	15629.9	61.5			
FH (60°-80°)	1919.0	7.6			G2/5000
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	1702.7	6.7	B3/2500		
BM (30°-60°)	2654.7	10.4	B3/5000		
BH (60°-80°)	344.5	1.4	B1/500		G1/500
BVH (80°-90°)	17.4	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4
2.5°	6141.7	6200.8	6209.9	6282.6	6278.0	6400.7	6437.0	6441.6	6523.3	6482.4	6586.9
5°	5969.1	5937.3	5923.7	6050.9	6087.2	6196.3	6287.1	6341.6	6509.7	6568.8	6677.8
7.5°	5814.7	5814.7	5823.7	5937.3	5923.7	6064.5	6159.9	6328.0	6573.3	6623.3	6755.0
10°	5664.8	5610.2	5678.4	5796.5	5896.4	5960.0	6159.9	6318.9	6605.1	6750.5	6932.2
12.5°	5587.5	5614.8	5623.9	5710.2	5819.2	6010.0	6119.0	6382.5	6832.2	6918.5	7113.9
15°	6073.6	6019.1	5887.3	5810.1	5901.0	5991.8	6264.4	6532.4	6950.3	7073.0	7291.0
17.5°	6636.9	6591.5	6482.4	6273.5	6069.1	6237.1	6450.6	6695.9	7077.5	7259.2	7581.8
20°	7372.8	7300.1	7191.1	6782.3	6605.1	6423.4	6650.5	6941.3	7286.5	7450.0	7781.7
22.5°	8249.6	8249.6	8004.2	7509.1	7141.1	6968.5	7063.9	7232.0	7518.2	7740.8	8067.8
25°	9162.6	9135.4	8912.8	8399.5	7777.1	7572.7	7681.7	7799.8	7877.1	7999.7	8217.8
27.5°	10207.5	10048.5	9766.8	9199.0	8649.3	8254.1	8372.2	8267.7	8172.3	8235.9	8549.4
30°	10916.1	11016.1	10657.2	10112.1	9594.2	9153.6	9176.3	9085.4	8649.3	8740.2	8926.4
32.5°	11652.0	11715.6	11515.8	11215.9	10698.1	10184.7	9998.5	9921.3	9594.2	9635.1	9453.4
35°	12265.3	12388.0	12210.8	12079.1	11929.1	11515.8	11002.4	11252.3	10725.3	10625.4	10152.9
37.5°	12828.6	12792.3	13001.2	12864.9	12833.1	12542.4	11979.1	12029.1	11674.8	11652.0	11106.9
40°	13332.8	13341.9	13628.1	13691.7	13564.5	13046.7	12229.0	12624.2	12910.4	12937.6	12238.1
42.5°	13750.8	13873.4	14118.7	14632.1	14441.3	13578.1	12487.9	12919.5	13982.5	14150.5	13310.1
45°	14114.2	14364.0	14668.4	15127.2	15018.2	14332.2	13133.0	13528.2	15127.2	15567.9	14318.6
47.5°	14136.9	14464.0	14795.6	15477.0	15613.3	14736.5	13800.7	14491.2	16035.8	16512.7	15054.5
50°	14046.0	14218.7	14881.9	15622.4	15931.3	15395.2	14736.5	15299.8	16917.0	17216.9	15427.0
52.5°	12969.4	13101.2	14432.2	15758.6	16503.7	16140.2	15976.7	16426.4	17816.5	18039.1	15776.8
55°	10811.6	10788.9	12619.6	15072.7	16767.1	17244.1	17144.2	17303.2	18856.8	19056.7	15863.1
57.5°	7395.5	7808.9	9389.8	12551.5	15154.5	16985.2	17089.7	16826.2	17643.9	17721.1	13828.0
60°	3988.5	4161.1	5433.1	8376.8	11538.5	13841.6	14114.2	13637.2	13573.6	13355.6	9871.3
62.5°	1585.4	1671.7	2394.0	4147.5	6287.1	8413.1	8999.1	8803.8	8385.8	7813.5	5110.5
65°	754.1	808.6	1190.2	1939.7	2789.2	3507.0	4093.0	4274.7	3152.6	2839.2	1685.3
67.5°	513.3	554.2	867.7	1108.4	994.9	1040.3	1353.7	1258.3	740.5	631.4	467.9
70°	390.7	417.9	695.0	754.1	445.2	313.4	349.8	327.1	304.4	308.9	304.4
72.5°	277.1	299.8	508.8	445.2	195.3	145.4	186.3	222.6	222.6	222.6	218.0
75°	168.1	190.8	295.3	172.6	77.2	77.2	118.1	149.9	159.0	163.5	154.5
77.5°	86.3	109.0	99.9	50.0	50.0	59.1	86.3	104.5	113.6	113.6	109.0
80°	18.2	18.2	18.2	27.3	50.0	63.6	86.3	95.4	109.0	109.0	99.9
82.5°	0.0	4.5	13.6	27.3	45.4	59.1	81.8	95.4	109.0	113.6	104.5
85°	0.0	4.5	9.1	18.2	31.8	36.3	31.8	27.3	27.3	27.3	27.3
87.5°	0.0	0.0	4.5	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4	6532.4
2.5°	6596.0	6609.6	6586.9	6582.4	6564.2	6618.7	6487.0	6455.2	6537.0	6459.7	6477.9
5°	6682.3	6714.1	6673.2	6605.1	6505.2	6350.7	6219.0	6046.3	5964.6	5905.5	5896.4
7.5°	6745.9	6768.6	6727.7	6509.7	6209.9	5819.2	5528.5	5315.0	5146.9	5096.9	5015.1
10°	7004.9	7009.4	6805.0	6323.4	5737.4	5224.1	4778.9	4451.9	4283.8	4179.3	4133.9
12.5°	7177.5	7168.4	6755.0	5955.5	5174.1	4492.7	3984.0	3588.7	3434.3	3384.3	3352.5
15°	7395.5	7345.6	6636.9	5578.4	4447.3	3711.4	3252.6	2980.0	2966.4	2934.6	2966.4
17.5°	7568.1	7427.3	6464.3	4892.5	3752.3	3057.2	2757.4	2775.6	2811.9	2843.7	2848.3
20°	7849.8	7559.1	6069.1	4292.9	3107.2	2621.1	2616.6	2698.4	2789.2	2825.6	2861.9
22.5°	8063.3	7613.6	5646.6	3652.3	2580.3	2444.0	2521.2	2643.9	2712.0	2748.3	2802.8
25°	8140.5	7463.7	5083.3	3011.8	2325.9	2362.2	2480.3	2562.1	2648.4	2689.3	2666.6
27.5°	8217.8	7386.4	4411.0	2480.3	2189.6	2307.7	2407.6	2489.4	2516.7	2571.2	2607.5
30°	8404.0	7118.4	3806.8	2144.2	2121.4	2271.4	2344.0	2371.3	2444.0	2475.8	2475.8
32.5°	8553.9	7013.9	3166.3	1985.2	2112.4	2289.5	2298.6	2298.6	2307.7	2285.0	2275.9
35°	8862.8	6655.1	2593.9	1889.8	2107.8	2294.1	2316.8	2239.6	2030.6	1948.8	1926.1
37.5°	9244.4	6423.4	2171.4	1867.1	2139.6	2348.6	2384.9	2094.2	1821.6	1689.9	1667.2
40°	9707.8	6259.8	1894.3	1858.0	2212.3	2475.8	2366.8	1980.6	1626.3	1435.5	1426.4
42.5°	10248.3	6109.9	1708.1	1853.4	2303.2	2607.5	2348.6	1885.2	1426.4	1299.2	1317.4
45°	10679.9	6028.2	1580.9	1821.6	2335.0	2684.7	2362.2	1717.1	1344.6	1262.9	1272.0
47.5°	11016.1	5855.5	1476.4	1767.1	2330.4	2712.0	2239.6	1649.0	1303.8	1326.5	1349.2
50°	11025.1	5623.9	1344.6	1649.0	2262.3	2662.0	2098.7	1585.4	1294.7	1390.1	1435.5
52.5°	10902.5	5296.8	1203.8	1480.9	2103.3	2489.4	1971.5	1558.1	1253.8	1244.7	1299.2
55°	10466.4	4683.5	967.6	1199.3	1776.2	2053.3	1858.0	1508.2	1131.1	1026.7	1035.7
57.5°	8458.5	3357.1	713.2	858.6	1258.3	1503.6	1676.3	1485.5	1017.6	872.2	876.7
60°	5237.7	1903.4	522.4	586.0	776.8	913.1	1358.3	1381.0	908.5	735.9	726.8
62.5°	2689.3	940.3	404.3	413.4	477.0	536.0	931.3	1158.4	822.2	699.6	699.6
65°	899.5	463.4	354.3	318.0	318.0	331.6	563.3	804.1	695.0	586.0	586.0
67.5°	386.1	345.2	308.9	277.1	254.4	240.8	318.0	467.9	517.9	445.2	427.0
70°	299.8	290.7	268.0	231.7	199.9	181.7	186.3	240.8	295.3	286.2	277.1
72.5°	222.6	222.6	213.5	181.7	154.5	131.7	122.7	127.2	140.8	145.4	149.9
75°	154.5	159.0	159.0	140.8	113.6	95.4	81.8	68.1	54.5	45.4	40.9
77.5°	104.5	109.0	118.1	104.5	86.3	63.6	50.0	36.3	22.7	9.1	9.1
80°	90.9	104.5	113.6	104.5	90.9	68.1	50.0	27.3	13.6	0.0	0.0
82.5°	95.4	104.5	118.1	99.9	86.3	63.6	50.0	31.8	13.6	4.5	0.0
85°	22.7	22.7	27.3	31.8	40.9	45.4	36.3	22.7	13.6	4.5	0.0
87.5°	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	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)