

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: P529635

Luminaire Tested: **GALN-SA4D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17862 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

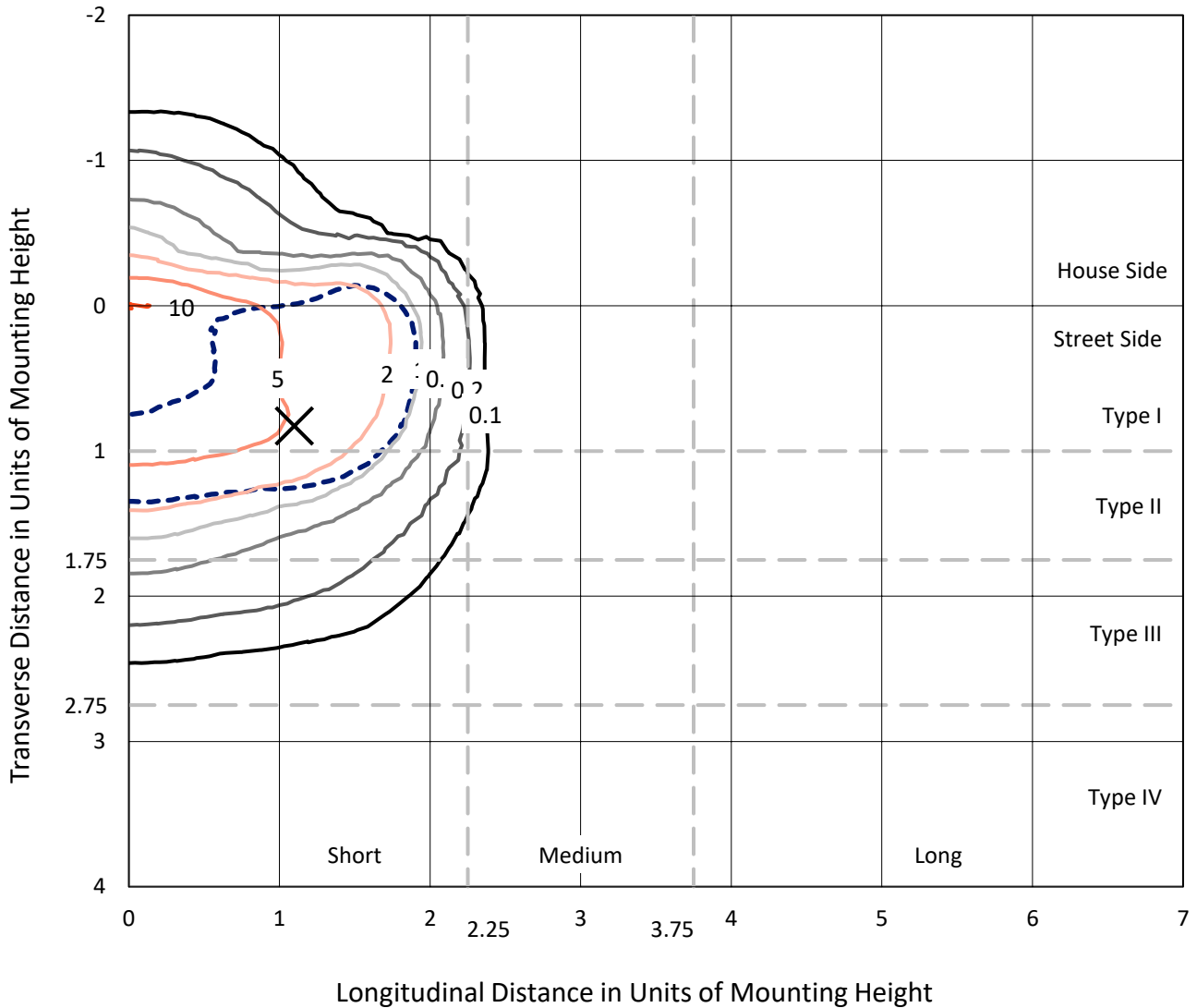
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

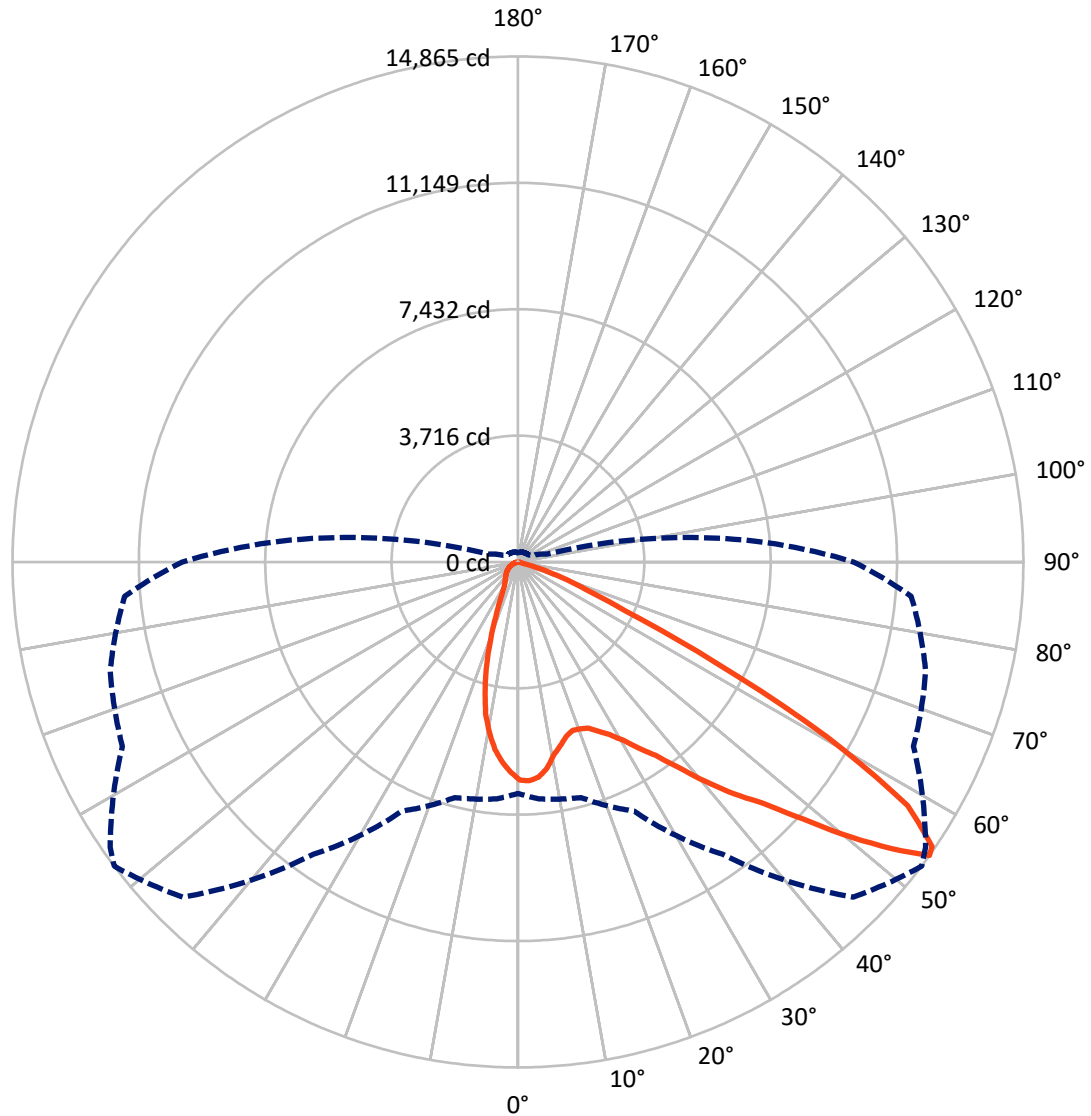
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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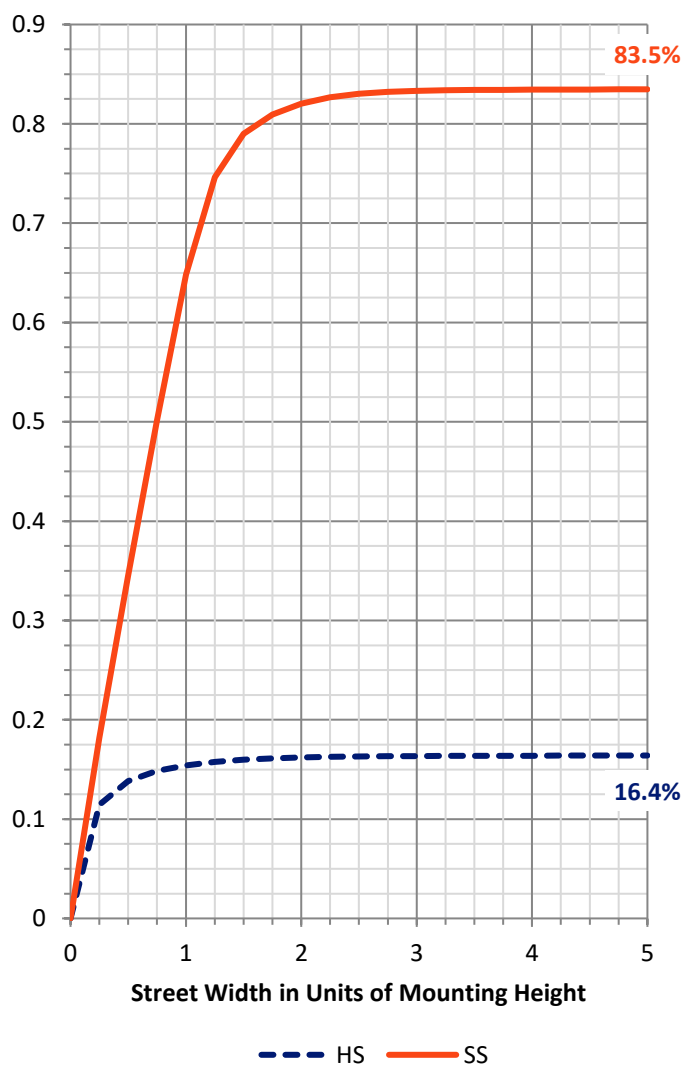
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2955.3	0.0	2955.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14906.7	0.0	14906.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17862.0	0.0	17862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.5	3.1
10°-20°	1262.0	7.1
20°-30°	1793.6	10.0
30°-40°	2768.0	15.5
40°-50°	4340.0	24.3
50°-60°	5041.5	28.2
60°-70°	1905.0	10.7
70°-80°	181.1	1.0
80°-90°	20.4	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°	17862.0	100.0
0°-180°	17862.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P529635

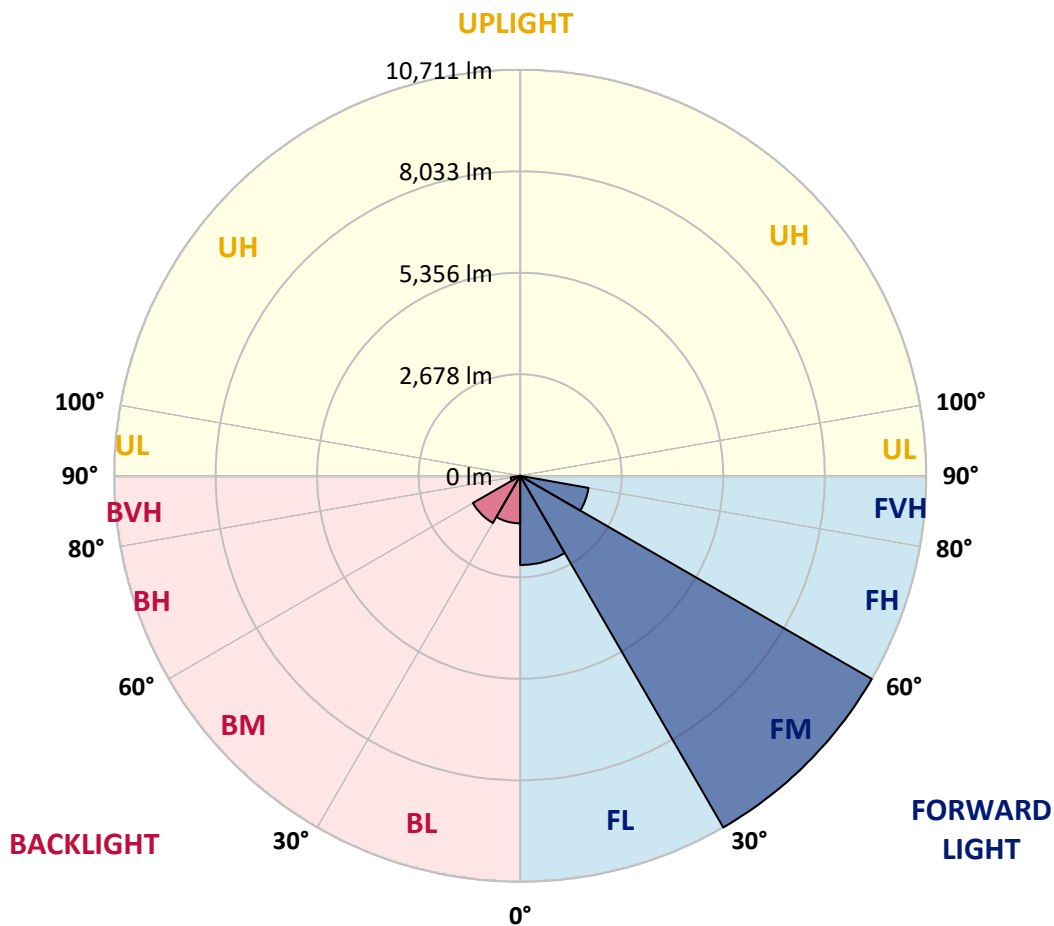
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.0	13.2			
FM (30°-60°)	10711.3	60.0			
FH (60°-80°)	1832.9	10.3			G2/5000
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	1254.1	7.0	B3/2500		
BM (30°-60°)	1438.1	8.1	B2/2500		
BH (60°-80°)	253.2	1.4	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
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





REPORT NUMBER: P529635

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7
2.5°	6382.5	6325.9	6382.5	6389.1	6429.0	6465.6	6442.4	6495.6	6465.6	6432.4	6422.4
5°	5866.7	5943.2	5946.5	6066.3	6039.7	6259.3	6355.8	6329.2	6492.3	6482.3	6459.0
7.5°	5404.1	5374.2	5414.1	5553.9	5730.2	5983.1	6122.9	6119.6	6352.5	6518.9	6502.2
10°	4974.9	4971.5	5054.7	5164.5	5314.3	5580.5	5773.5	5870.0	6232.7	6485.6	6522.2
12.5°	4685.3	4672.0	4761.9	4851.7	5088.0	5294.3	5540.6	5587.1	6003.1	6369.1	6429.0
15°	4495.7	4525.6	4532.3	4705.3	4855.1	5127.9	5320.9	5417.4	5896.6	6276.0	6505.6
17.5°	4462.4	4502.3	4505.7	4648.7	4808.5	5038.1	5207.8	5337.6	5806.8	6322.6	6508.9
20°	4528.9	4505.7	4525.6	4615.5	4771.9	4991.5	5237.7	5281.0	5776.8	6345.8	6545.5
22.5°	4718.6	4712.0	4662.1	4735.3	4845.1	5074.7	5307.6	5374.2	5863.3	6465.6	6575.5
25°	4928.3	4964.9	4918.3	4908.3	4984.8	5211.1	5520.6	5607.1	6152.8	6681.9	6668.6
27.5°	5320.9	5284.3	5284.3	5237.7	5217.8	5327.6	5750.2	5893.3	6475.6	6961.5	6775.1
30°	5697.0	5736.9	5706.9	5723.6	5590.5	5580.5	6076.3	6252.7	7048.0	7387.4	7001.4
32.5°	6292.6	6239.4	6289.3	6246.0	6069.7	5890.0	6518.9	6701.9	7740.1	7876.6	7340.8
35°	6788.4	6765.1	6978.1	6971.4	6685.3	6508.9	6988.1	7261.0	8222.6	8462.2	7740.1
37.5°	7493.9	7450.6	7693.6	7810.0	7553.8	7290.9	7660.3	7976.4	8671.9	8931.4	8149.4
40°	8219.3	8329.1	8655.2	8848.2	8575.4	8226.0	8482.2	8578.7	8971.4	9237.6	8429.0
42.5°	9137.8	9297.5	9630.2	9796.6	9773.3	9394.0	9317.4	9314.1	9187.7	9151.1	8635.3
45°	10019.6	9959.7	10472.1	10834.9	11127.7	11017.9	10122.7	10022.9	9530.4	9280.8	8688.5
47.5°	10405.6	10385.6	10735.0	11380.6	12378.9	12515.3	11294.1	10908.1	10109.4	9826.6	8978.0
50°	9906.4	10009.6	10355.7	11071.1	12601.8	13643.4	12731.6	12212.5	10784.9	10492.1	9663.5
52.5°	8275.9	8345.8	8675.2	9583.7	11843.1	14308.9	14109.3	13809.8	12026.2	11540.3	10858.2
54°	6805.1	6991.4	7171.1	8082.9	10492.1	13939.6	14864.7	14635.1	12834.8	12412.2	11610.2
55°	5926.6	6036.4	6166.2	7074.6	9557.0	13314.0	14778.1	14798.1	13377.2	12685.0	12116.0
57.5°	4329.3	4405.8	4272.7	4675.4	6562.1	10811.6	13517.0	14056.0	14109.3	13094.3	12425.5
60°	3307.7	3341.0	3191.2	3254.5	4079.7	7420.7	10455.5	11104.4	12728.3	11443.8	10525.4
62.5°	2565.6	2572.3	2569.0	2678.8	2811.9	4365.9	6538.9	7114.5	8775.0	8126.1	7147.8
65°	1890.1	1860.2	1913.4	2246.2	2399.2	2745.3	3444.1	3863.4	4768.5	4026.5	2878.4
67.5°	1224.6	1234.6	1287.8	1670.5	2056.5	2106.4	2119.7	2086.4	2089.8	1151.4	722.1
70°	735.4	752.1	735.4	945.1	1470.8	1510.8	1381.0	1347.7	1051.5	272.9	269.5
72.5°	435.9	412.6	369.4	406.0	612.3	732.1	658.9	655.5	412.6	159.7	159.7
75°	183.0	166.4	136.4	123.1	163.1	156.4	156.4	139.8	109.8	106.5	99.8
77.5°	36.6	36.6	26.6	29.9	39.9	46.6	56.6	56.6	66.6	66.6	63.2
80°	0.0	3.3	10.0	20.0	29.9	43.3	49.9	49.9	56.6	56.6	46.6
82.5°	0.0	3.3	10.0	20.0	26.6	39.9	49.9	49.9	56.6	59.9	49.9
85°	0.0	3.3	10.0	16.6	26.6	33.3	33.3	29.9	23.3	20.0	13.3
87.5°	0.0	0.0	3.3	6.7	3.3	6.7	6.7	6.7	6.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7	6415.7
2.5°	6445.7	6442.4	6362.5	6232.7	6202.8	6092.9	6079.6	6013.1	6049.7	5926.6	5913.3
5°	6392.4	6352.5	6256.0	6172.8	5929.9	5756.9	5620.4	5454.0	5357.5	5374.2	5310.9
7.5°	6469.0	6365.8	6196.1	5906.6	5610.4	5307.6	5144.6	4805.1	4682.0	4499.0	4472.4
10°	6389.1	6312.6	6049.7	5570.5	5161.2	4725.3	4342.6	3966.6	3680.4	3557.3	3530.6
12.5°	6382.5	6249.3	5810.1	5277.7	4685.3	4059.7	3504.0	3034.8	2752.0	2592.2	2555.6
15°	6279.3	6119.6	5540.6	4825.1	4006.5	3227.8	2622.2	2169.6	1953.3	1860.2	1886.8
17.5°	6289.3	6049.7	5271.0	4345.9	3337.6	2369.3	1790.3	1557.3	1500.8	1524.1	1524.1
20°	6279.3	5893.3	4944.9	3793.5	2555.6	1643.9	1314.4	1231.2	1267.8	1341.0	1324.4
22.5°	6226.1	5820.1	4645.4	3211.2	1880.1	1217.9	1054.9	1058.2	1114.8	1204.6	1224.6
25°	6266.0	5657.0	4266.1	2622.2	1371.0	971.7	915.1	938.4	998.3	1064.9	1078.2
27.5°	6236.0	5540.6	3870.1	2036.5	1001.6	835.2	831.9	858.5	885.2	935.1	935.1
30°	6269.3	5434.1	3480.7	1514.1	825.3	765.4	752.1	772.0	798.6	808.6	805.3
32.5°	6392.4	5354.2	3031.5	1131.4	728.8	698.8	698.8	698.8	695.5	708.8	712.1
35°	6662.0	5367.5	2635.5	875.2	665.5	642.2	632.3	618.9	612.3	618.9	622.3
37.5°	6954.8	5360.9	2226.2	745.4	618.9	599.0	575.7	555.7	552.4	559.0	549.1
40°	7084.6	5424.1	1846.9	668.9	575.7	552.4	515.8	499.1	502.5	509.1	502.5
42.5°	7261.0	5444.1	1600.6	609.0	535.8	499.1	475.9	455.9	452.6	462.5	459.2
45°	7257.6	5330.9	1341.0	575.7	499.1	459.2	429.3	412.6	412.6	419.3	422.6
47.5°	7470.6	5314.3	1151.4	545.7	472.5	432.6	396.0	382.7	379.4	379.4	372.7
50°	7966.4	5547.2	1005.0	512.5	439.3	402.6	372.7	356.1	342.7	336.1	332.8
52.5°	8934.8	6272.6	891.8	472.5	402.6	372.7	346.1	332.8	316.1	299.5	296.2
54°	9873.2	7021.4	885.2	439.3	372.7	352.7	329.4	322.8	302.8	279.5	272.9
55°	10295.8	7457.3	908.5	412.6	352.7	339.4	319.5	312.8	292.8	266.2	262.9
57.5°	10645.2	7627.0	895.1	342.7	319.5	316.1	299.5	289.5	266.2	229.6	223.0
60°	8568.7	5766.8	642.2	302.8	292.8	286.2	272.9	266.2	236.3	196.3	193.0
62.5°	5414.1	3317.7	409.3	266.2	256.2	246.2	229.6	223.0	196.3	156.4	146.4
65°	2306.1	1374.3	276.2	236.3	219.6	203.0	189.7	179.7	156.4	116.5	113.1
67.5°	599.0	489.2	229.6	206.3	183.0	159.7	149.7	133.1	106.5	79.9	76.5
70°	269.5	246.2	193.0	173.0	146.4	123.1	109.8	93.2	69.9	53.2	49.9
72.5°	159.7	156.4	146.4	129.8	109.8	93.2	79.9	63.2	46.6	29.9	29.9
75°	99.8	96.5	99.8	89.8	76.5	69.9	59.9	43.3	26.6	13.3	13.3
77.5°	59.9	59.9	59.9	56.6	53.2	53.2	43.3	26.6	13.3	3.3	3.3
80°	46.6	46.6	49.9	46.6	46.6	46.6	36.6	20.0	6.7	0.0	0.0
82.5°	46.6	49.9	56.6	53.2	46.6	39.9	33.3	20.0	6.7	0.0	0.0
85°	13.3	10.0	16.6	23.3	33.3	29.9	23.3	16.6	6.7	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	3.3	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)