

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: P533349

Luminaire Tested: **GALN-SA8D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43410 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

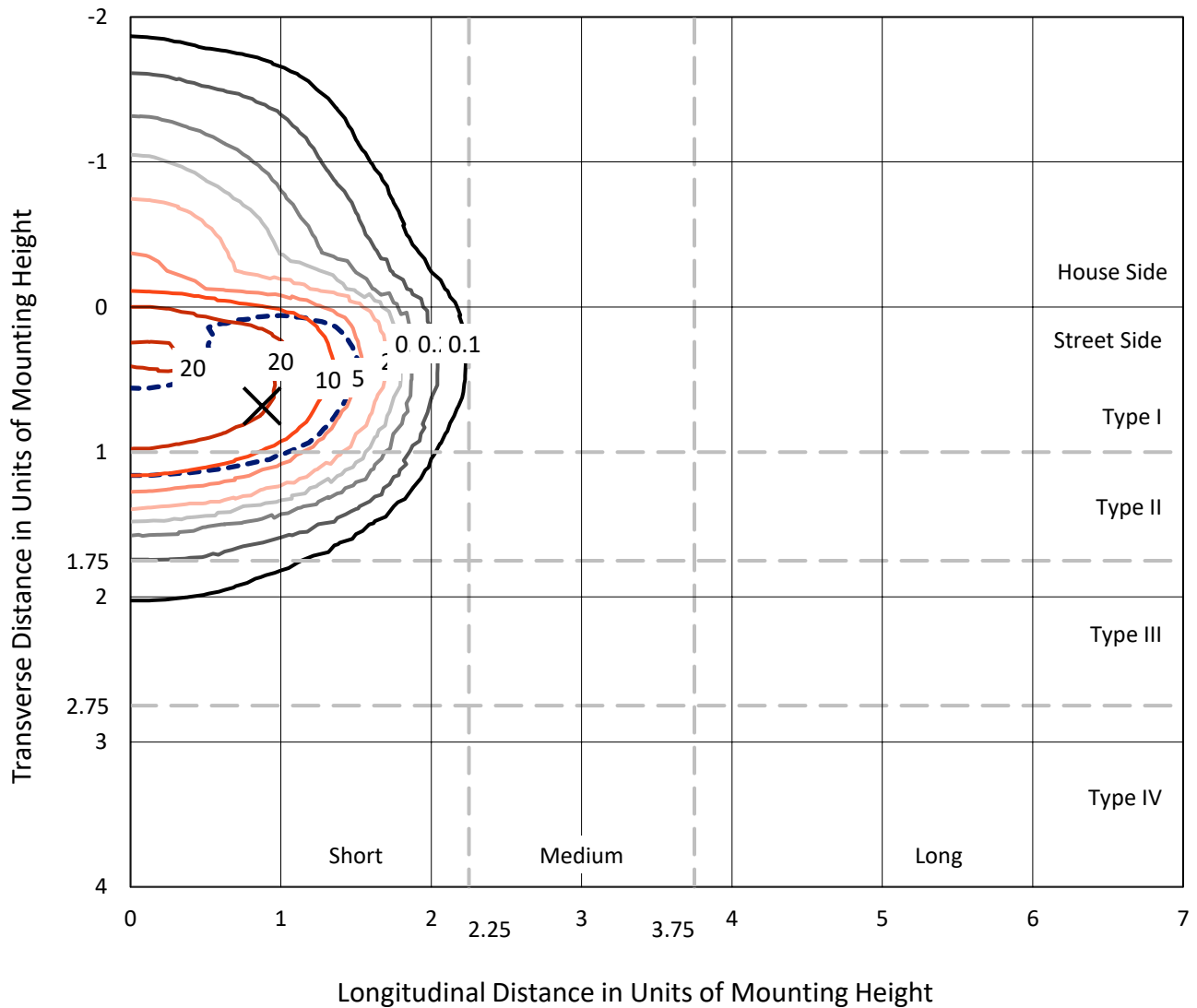
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

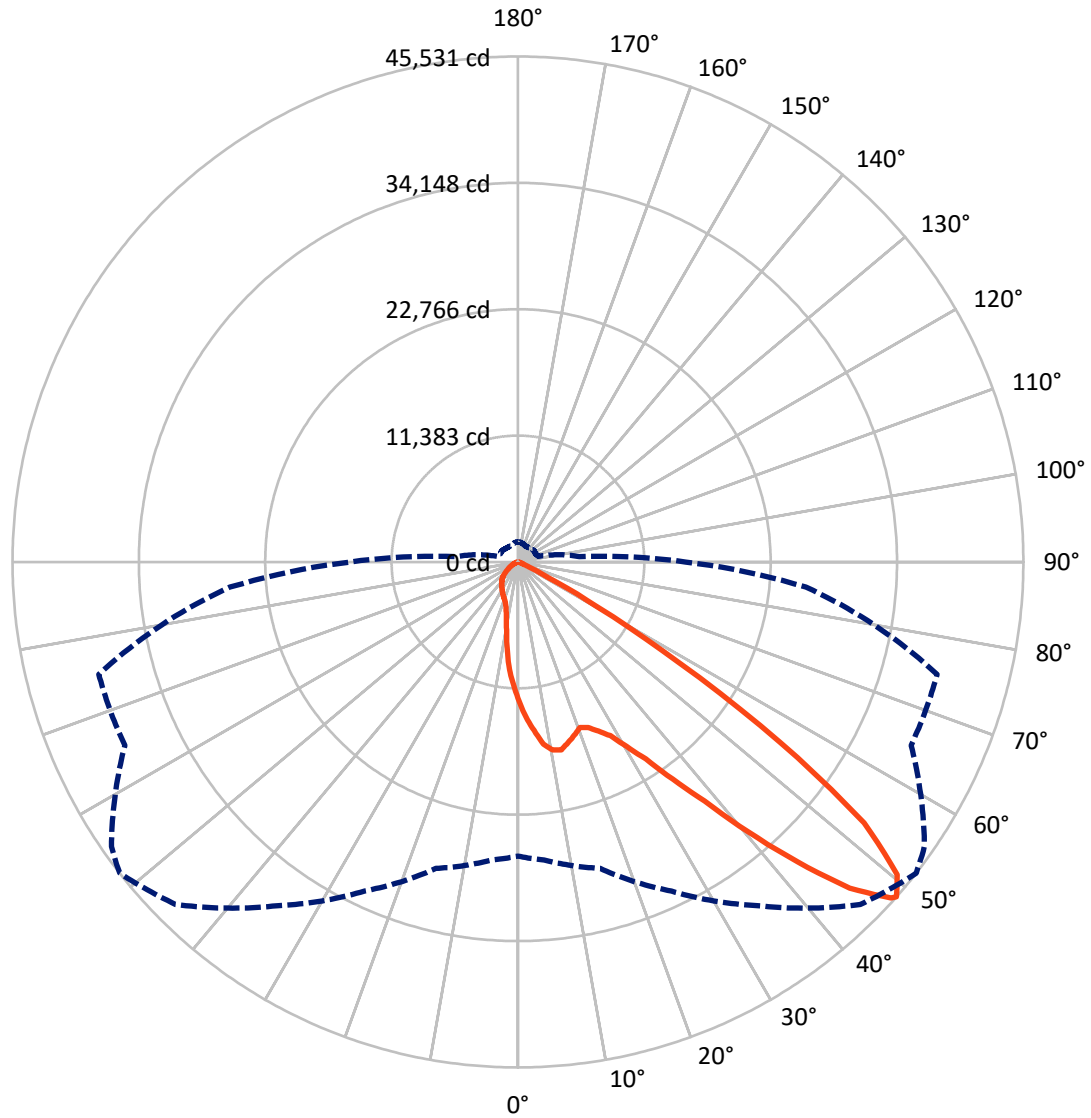
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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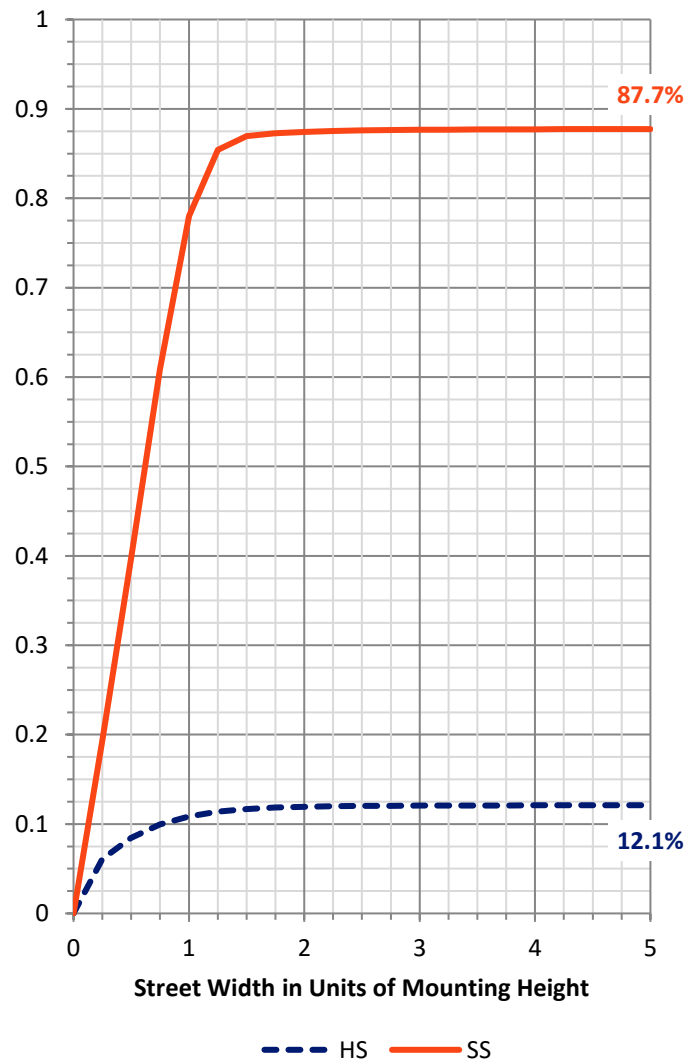
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5285.5	0.0	5285.5
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	38124.5	0.0	38124.5
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	43410.0	0.0	43410.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1147.4	2.6
10°-20°	2998.6	6.9
20°-30°	5119.8	11.8
30°-40°	9428.2	21.7
40°-50°	14641.9	33.7
50°-60°	8812.0	20.3
60°-70°	1019.2	2.3
70°-80°	197.3	0.5
80°-90°	45.6	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°	43410.0	100.0
0°-180°	43410.0	100.0

**Coefficient of Utilization**



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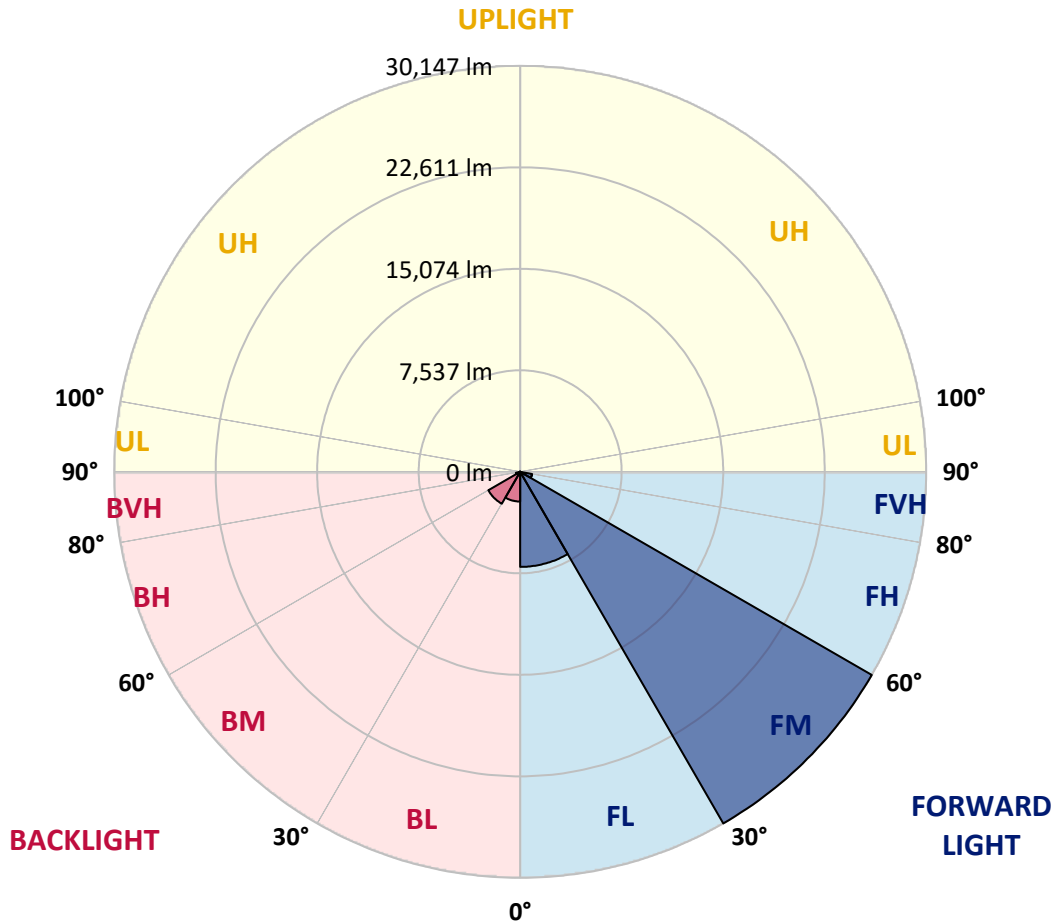
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7057.9	16.3			
FM (30°-60°)	30147.4	69.4			
FH (60°-80°)	897.5	2.1			G1/1800
FVH (80°-90°)	21.7	0.1			G1/100
BL (0°-30°)	2207.9	5.1	B3/2500		
BM (30°-60°)	2734.7	6.3	B3/5000		
BH (60°-80°)	319.0	0.7	B1/500		G1/500
BVH (80°-90°)	23.9	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1
2.5°	15193.9	14845.9	14877.5	14649.7	14516.8	14301.6	14010.5	13953.6	13637.2	13206.9	12770.2
5°	16560.8	16478.5	16586.1	16257.0	16269.7	15915.3	15231.9	15244.5	14516.8	13814.4	13137.3
7.5°	16649.4	16459.5	16567.1	16858.2	17029.1	16965.8	16579.8	16244.4	15554.6	14523.1	13535.9
10°	14909.1	15269.9	15383.8	15864.7	16548.1	17269.6	17225.3	17244.2	16668.4	15320.5	13877.7
12.5°	13865.0	13624.5	14010.5	14301.6	15333.1	16731.7	17370.8	17510.0	17554.3	16092.5	14219.4
15°	13390.4	13390.4	13453.7	13535.9	14282.7	15573.6	16877.2	17282.2	18237.8	17105.0	14757.3
17.5°	13687.8	13675.2	13763.8	13592.9	13871.3	14864.9	16421.6	16883.5	19003.5	18098.5	15181.3
20°	14592.7	14637.0	14580.1	14086.5	14105.5	14852.2	15915.3	16643.1	19522.4	18959.2	15744.5
22.5°	15852.0	15877.4	15554.6	15016.7	14858.5	15225.6	16206.4	16763.3	19940.0	19990.7	15915.3
25°	17307.5	17206.3	17143.0	16383.6	15902.7	16219.1	16864.5	17187.3	20199.5	20876.6	16402.6
27.5°	19326.2	19123.7	18737.7	18060.6	17706.2	17256.9	17718.9	18250.4	20939.9	22116.9	16934.2
30°	22306.8	22129.6	21376.5	20503.2	19573.0	19130.0	19275.6	19566.7	22275.1	23553.4	17636.6
32.5°	26793.4	26420.1	25331.6	23667.3	22401.7	21180.4	21142.4	21452.5	23471.1	25540.5	18471.9
35°	31735.7	31621.8	30020.8	28305.9	25856.9	23971.1	24002.7	24167.2	25761.9	28147.7	19566.7
37.5°	35020.0	35646.5	34627.7	32786.2	30729.5	28033.8	27350.3	27407.3	28907.0	31235.8	21541.1
40°	37557.6	37026.1	37146.3	36716.0	35311.1	33476.0	31963.5	31666.1	32545.7	34653.0	23502.8
42.5°	36450.2	36475.5	37215.9	38234.7	38582.8	38449.9	36905.8	36342.6	35659.2	37450.1	25369.6
45°	33324.1	33975.9	34937.8	37633.6	40000.3	42221.5	41917.7	40981.2	37810.8	39664.9	26445.4
47.5°	28337.5	28312.2	29887.9	33393.7	38652.4	43854.2	45233.7	44575.6	39335.8	39418.1	26223.9
48°	26496.0	26951.6	28578.0	32703.9	37798.1	43613.7	45531.1	44702.1	39076.4	39089.1	26034.1
50°	19585.7	19503.4	21528.4	26590.9	33760.7	40981.2	44278.1	44923.6	39070.1	37424.7	24705.1
52.5°	10346.5	10700.9	12175.4	16719.0	23869.8	33539.3	39057.4	40063.6	37690.5	34703.6	22794.0
55°	4398.1	3974.1	5106.8	7549.5	13428.4	22408.0	28653.9	30894.1	31868.6	30710.6	19940.0
57.5°	1569.4	1714.9	1974.4	2841.3	5644.7	12264.0	17086.0	18826.3	22079.0	22534.6	13586.6
60°	1006.2	1025.2	1107.4	1303.6	2119.9	4727.1	8106.4	9492.2	10966.7	11321.1	6340.8
62.5°	778.4	784.7	822.7	854.3	1006.2	1835.2	3043.8	3607.1	3746.3	3221.0	1664.3
65°	651.8	658.1	670.8	670.8	715.1	860.6	1063.1	1170.7	1139.1	1126.4	942.9
67.5°	499.9	512.6	537.9	537.9	563.2	525.2	588.5	626.5	708.8	860.6	803.7
70°	392.3	398.7	417.7	430.3	430.3	379.7	424.0	462.0	518.9	639.1	632.8
72.5°	303.8	316.4	329.1	329.1	310.1	259.5	303.8	335.4	373.4	443.0	430.3
75°	234.1	234.1	240.5	196.2	151.9	132.9	183.5	221.5	278.4	291.1	240.5
77.5°	63.3	69.6	63.3	57.0	63.3	94.9	120.2	139.2	177.2	177.2	158.2
80°	0.0	6.3	19.0	38.0	63.3	88.6	107.6	120.2	139.2	151.9	145.5
82.5°	0.0	6.3	19.0	38.0	57.0	69.6	94.9	101.3	113.9	132.9	132.9
85°	0.0	6.3	12.7	25.3	38.0	44.3	44.3	38.0	38.0	31.6	25.3
87.5°	0.0	0.0	6.3	12.7	12.7	19.0	19.0	19.0	19.0	19.0	19.0
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°	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1	12536.1
2.5°	12599.4	12403.2	12105.8	11637.5	11188.2	10897.1	10618.7	10308.6	10137.7	10125.1	10030.1
5°	12751.2	12308.3	11599.5	10795.8	9935.2	9194.8	8448.1	7960.8	7524.2	7283.7	7239.4
7.5°	12833.5	12257.6	11112.3	9764.4	8296.2	7087.5	6252.2	5638.4	5397.9	5220.7	5214.4
10°	13004.4	12169.1	10384.5	8397.5	6581.3	5360.0	4784.1	4505.7	4372.8	4322.1	4246.2
12.5°	13130.9	12004.5	9637.8	6992.6	5201.7	4442.4	4189.2	4126.0	4132.3	4157.6	4126.0
15°	13308.1	11859.0	8631.6	5739.6	4366.4	3999.4	3999.4	4012.1	4100.6	4113.3	4107.0
17.5°	13295.5	11574.2	7593.8	4727.1	3860.2	3809.6	3828.5	3948.8	4005.7	4024.7	3980.4
20°	13447.3	11308.4	6524.3	4037.4	3575.4	3651.3	3777.9	3809.6	3879.2	3891.8	3841.2
22.5°	13403.0	10644.0	5530.8	3493.1	3360.3	3505.8	3632.4	3670.3	3651.3	3613.4	3607.1
25°	13320.8	10074.4	4619.6	3132.4	3202.0	3360.3	3480.5	3410.9	3372.9	3379.2	3385.6
27.5°	13175.2	9353.0	3866.5	2879.3	2986.9	3221.0	3214.7	3189.4	3227.4	3195.7	3227.4
30°	13149.9	8631.6	3246.3	2651.5	2828.7	2999.5	3012.2	3056.5	3100.8	3043.8	3100.8
32.5°	13187.9	7840.6	2803.4	2512.3	2733.8	2740.1	2879.3	2923.6	2892.0	2765.4	2778.1
35°	13479.0	7233.1	2480.6	2436.3	2581.9	2588.2	2721.1	2664.2	2524.9	2449.0	2493.3
37.5°	14092.8	6726.8	2328.8	2366.7	2379.4	2461.7	2468.0	2354.1	2366.7	2360.4	2385.7
40°	14877.5	6340.8	2221.2	2303.5	2290.8	2347.7	2119.9	2183.2	2240.2	2259.2	2271.8
42.5°	15415.4	6062.4	2151.6	2202.2	2176.9	2075.6	1949.1	2012.4	2056.7	2126.3	2138.9
45°	15655.9	5840.9	2069.3	2025.0	2025.0	1841.5	1790.9	1803.5	1904.8	1980.7	1968.1
47.5°	15263.5	5625.7	1923.8	1790.9	1835.2	1683.3	1626.3	1626.3	1733.9	1828.8	1809.9
48°	15111.6	5537.1	1930.1	1740.2	1771.9	1658.0	1601.0	1588.4	1708.6	1797.2	1797.2
50°	14358.6	5208.1	1765.6	1601.0	1537.7	1525.1	1487.1	1499.8	1575.7	1658.0	1658.0
52.5°	12890.5	4499.3	1493.4	1373.2	1259.3	1335.2	1354.2	1328.9	1366.9	1442.8	1436.5
55°	10757.9	3455.2	1196.0	1139.1	1050.5	1132.7	1170.7	1139.1	1101.1	1158.1	1158.1
57.5°	6891.4	1860.5	955.6	968.2	879.6	961.9	993.5	917.6	848.0	892.3	885.9
60°	3107.1	1113.8	784.7	765.7	708.8	803.7	854.3	765.7	670.8	702.4	734.1
62.5°	1164.4	791.0	594.8	582.2	569.5	658.1	683.4	613.8	518.9	537.9	544.2
65°	854.3	696.1	474.6	430.3	455.6	518.9	506.3	436.6	373.4	373.4	386.0
67.5°	727.7	607.5	386.0	335.4	335.4	341.7	316.4	278.4	259.5	272.1	284.8
70°	569.5	480.9	303.8	259.5	234.1	208.8	183.5	177.2	158.2	177.2	170.9
72.5°	367.0	322.7	234.1	196.2	177.2	145.5	120.2	113.9	94.9	88.6	88.6
75°	196.2	196.2	183.5	158.2	139.2	113.9	94.9	75.9	50.6	38.0	38.0
77.5°	139.2	151.9	164.5	151.9	126.6	94.9	75.9	50.6	25.3	12.7	12.7
80°	132.9	151.9	164.5	145.5	126.6	94.9	69.6	38.0	19.0	6.3	6.3
82.5°	120.2	139.2	151.9	132.9	113.9	82.3	63.3	38.0	19.0	6.3	6.3
85°	25.3	31.6	38.0	38.0	44.3	57.0	44.3	31.6	12.7	6.3	6.3
87.5°	19.0	19.0	19.0	19.0	19.0	19.0	12.7	12.7	6.3	6.3	6.3
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)