

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: P530261

Luminaire Tested: **GALN-SA5C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17219 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

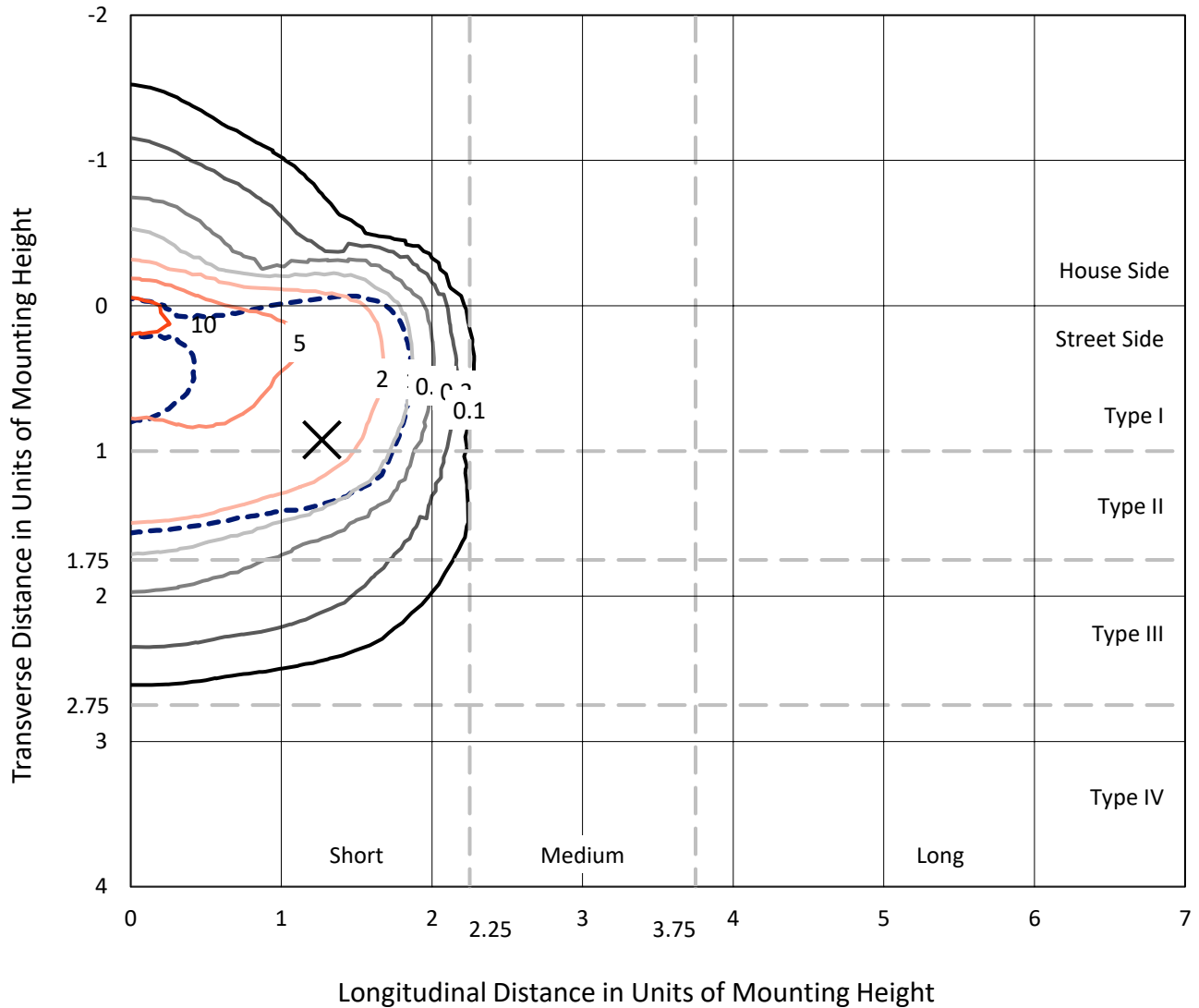
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

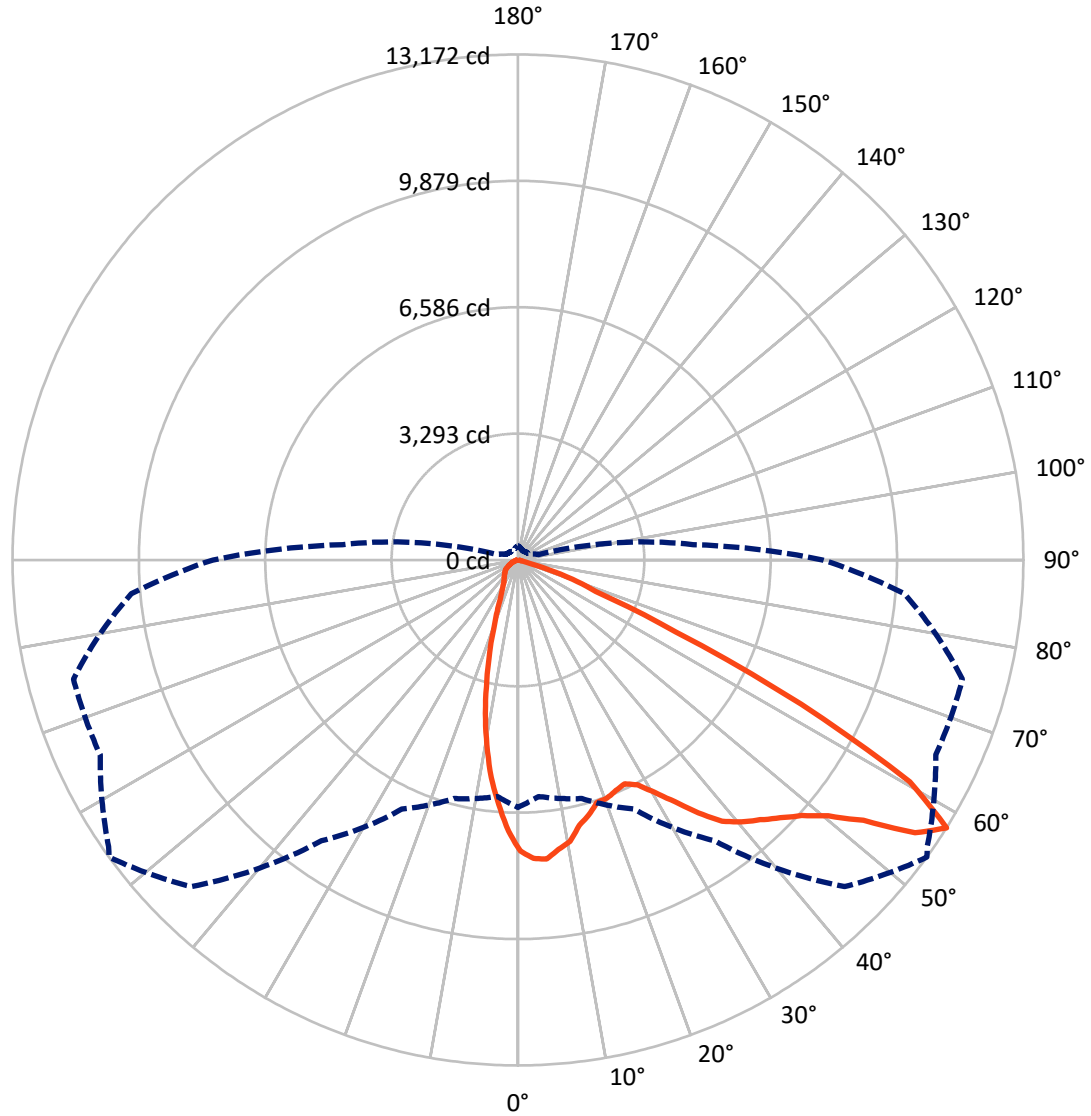
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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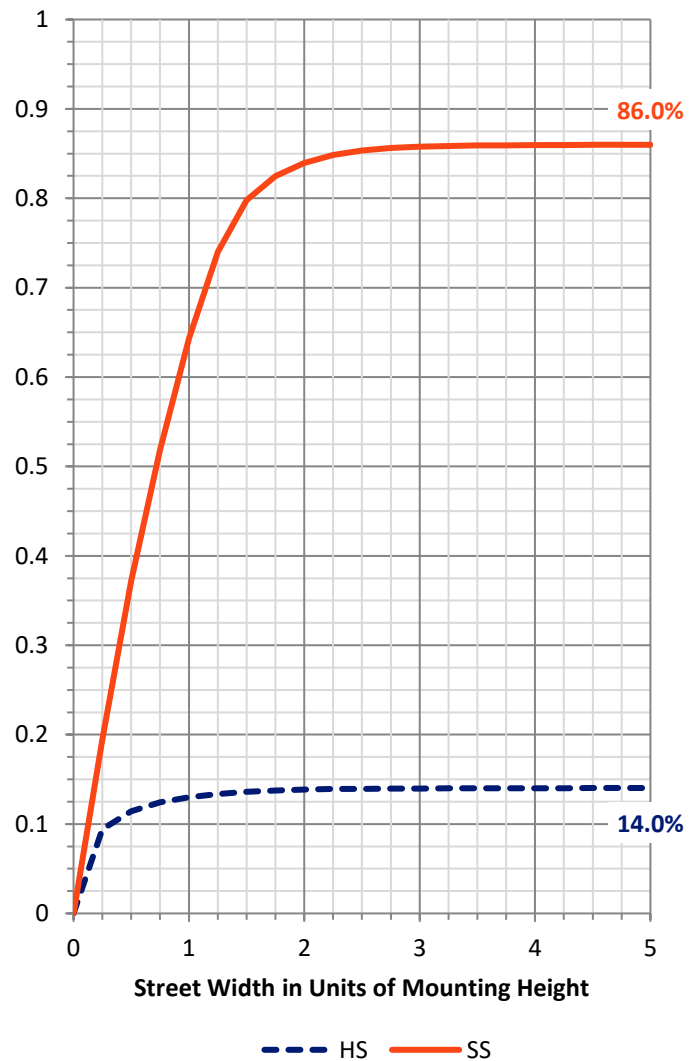
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2433.3	0.0	2433.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	14785.7	0.0	14785.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	17219.0	0.0	17219.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.7	3.7
10°-20°	1355.2	7.9
20°-30°	1795.9	10.4
30°-40°	2609.9	15.2
40°-50°	3870.1	22.5
50°-60°	4839.4	28.1
60°-70°	1908.9	11.1
70°-80°	190.1	1.1
80°-90°	14.8	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°	17219.0	100.0
0°-180°	17219.0	100.0

**Coefficient of Utilization**



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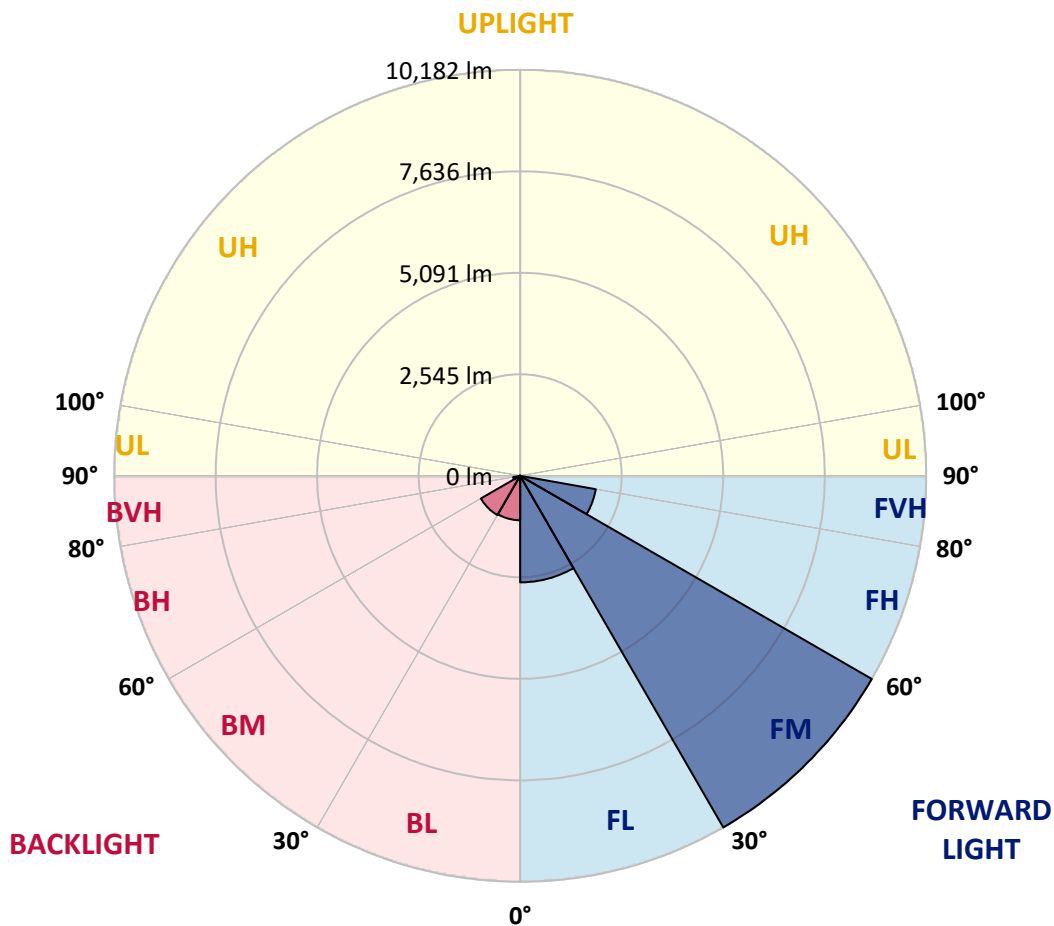
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2672.9	15.5			
FM (30°-60°)	10181.6	59.1			
FH (60°-80°)	1924.5	11.2			G2/5000
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	1112.9	6.5	B3/2500		
BM (30°-60°)	1137.9	6.6	B2/2500		
BH (60°-80°)	174.5	1.0	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2
2.5°	8027.1	7943.8	7950.2	7921.4	7883.0	7911.8	7786.9	7815.7	7812.5	7642.8	7530.8
5°	7825.3	7915.0	7822.1	7899.0	7825.3	7905.4	7828.5	7770.9	7678.1	7553.2	7345.1
7.5°	7482.7	7396.3	7421.9	7518.0	7534.0	7713.3	7617.2	7690.9	7652.4	7405.9	7120.9
10°	6794.3	6775.1	6903.2	7031.3	7188.2	7380.3	7453.9	7412.3	7383.5	7290.6	6909.6
12.5°	6266.0	6320.5	6317.3	6528.6	6794.3	6903.2	7095.3	7088.9	7249.0	7076.1	6711.1
15°	5763.3	5792.2	5926.6	6057.9	6352.5	6663.1	6900.0	6932.0	7124.1	7002.5	6557.4
17.5°	5456.0	5414.3	5520.0	5676.9	5977.9	6384.5	6647.1	6723.9	6986.5	6960.8	6381.3
20°	5151.8	5151.8	5238.2	5423.9	5699.3	6157.2	6624.6	6602.2	6986.5	6912.8	6192.4
22.5°	5049.3	5100.6	5123.0	5263.9	5590.4	5984.3	6528.6	6570.2	7040.9	6890.4	6109.1
25°	5190.2	5123.0	5129.4	5241.4	5548.8	5901.0	6458.1	6551.0	7140.1	7002.5	6041.9
27.5°	5212.6	5279.9	5299.1	5375.9	5580.8	5926.6	6634.2	6823.2	7386.7	7265.0	6061.1
30°	5407.9	5475.2	5472.0	5603.3	5744.1	6134.8	7028.1	7066.5	7895.8	7594.8	6179.6
32.5°	5644.9	5715.3	5737.7	5891.4	6003.5	6515.8	7508.4	7607.6	8385.7	8113.5	6490.2
35°	5939.4	5913.8	6016.3	6170.0	6410.1	7072.9	8094.3	8260.8	8914.0	8785.9	6810.4
37.5°	6307.7	6275.6	6374.9	6624.6	6951.2	7732.5	8635.4	8744.3	9298.2	9410.3	7402.7
40°	6567.0	6579.8	6880.8	7217.0	7562.8	8360.1	8978.0	9083.7	9567.2	9993.0	7851.0
42.5°	6999.3	7079.3	7441.1	7851.0	8212.8	8830.7	9256.6	9359.0	9692.0	10460.5	8456.1
45°	7626.8	7591.6	7991.8	8449.7	8849.9	9320.6	9586.4	9551.1	9765.7	10924.7	8837.1
47.5°	8433.7	8440.1	8705.9	9096.5	9512.7	9746.5	9954.6	9829.7	9919.4	11414.6	9346.2
50°	8984.4	9032.4	9247.0	9647.2	9855.3	10213.9	10479.7	10402.8	10374.0	11709.2	9666.4
52.5°	9125.3	9269.4	9384.6	9884.1	10370.8	10937.5	11276.9	11440.2	10927.9	11808.5	10073.0
55°	8062.3	8190.4	8597.0	9282.2	10566.1	12083.8	12551.3	12554.5	11651.6	12250.3	10358.0
57.5°	6445.3	6186.0	6435.7	7162.6	8933.2	12035.8	13172.4	13022.0	12013.4	11991.0	10111.5
60°	4457.0	4392.9	4409.0	4697.1	6182.8	9573.6	11738.0	11933.3	11062.4	10393.2	8004.6
62.5°	3531.6	3477.2	3406.8	3374.8	3839.0	5965.1	8280.0	8555.4	7735.7	6739.9	4745.2
65°	2766.4	2734.4	2744.0	2872.1	2868.9	3384.4	4527.4	4415.4	3534.9	2612.7	1492.1
67.5°	1866.7	1914.7	1953.1	2340.6	2539.1	2356.6	2186.9	2122.8	1149.5	483.5	329.8
70°	1050.2	1056.6	1098.2	1463.2	1927.5	1828.3	1508.1	1508.1	573.1	176.1	188.9
72.5°	573.1	553.9	515.5	630.8	858.1	870.9	672.4	585.9	169.7	115.3	105.7
75°	278.6	275.4	236.9	195.3	185.7	153.7	118.5	108.9	76.8	73.6	64.0
77.5°	57.6	54.4	28.8	28.8	32.0	35.2	44.8	44.8	54.4	54.4	44.8
80°	0.0	0.0	3.2	12.8	22.4	32.0	38.4	38.4	44.8	44.8	35.2
82.5°	0.0	0.0	3.2	9.6	19.2	28.8	35.2	38.4	44.8	48.0	38.4
85°	0.0	0.0	0.0	6.4	16.0	22.4	19.2	19.2	16.0	12.8	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2
2.5°	7473.1	7466.7	7319.4	7236.2	7085.7	6954.4	6848.8	6771.9	6771.9	6723.9	6679.1
5°	7261.8	7207.4	6893.6	6691.9	6406.9	6195.6	6051.5	5939.4	5763.3	5811.4	5622.5
7.5°	6999.3	6861.6	6445.3	6138.0	5744.1	5443.2	5135.8	4863.6	4601.1	4482.6	4546.6
10°	6717.5	6477.4	5917.0	5430.4	4940.5	4389.7	4031.1	3595.7	3326.7	3310.7	3240.3
12.5°	6419.7	6147.6	5465.6	4793.2	4149.6	3486.8	2939.3	2532.7	2350.2	2148.4	2186.9
15°	6195.6	5792.2	4962.9	4152.8	3297.9	2628.7	2078.0	1764.2	1591.3	1543.3	1527.3
17.5°	5952.3	5520.0	4450.6	3470.8	2587.1	1892.3	1495.3	1344.8	1277.5	1277.5	1267.9
20°	5699.3	5212.6	3941.5	2836.8	1940.3	1412.0	1197.5	1149.5	1146.3	1143.1	1143.1
22.5°	5532.8	4860.4	3480.4	2254.1	1463.2	1130.3	1040.6	1021.4	1034.2	1072.6	1072.6
25°	5356.7	4521.0	2971.3	1738.6	1133.5	970.2	918.9	931.7	963.8	999.0	986.2
27.5°	5177.4	4300.1	2491.0	1364.0	928.5	848.5	829.3	858.1	893.3	925.3	915.7
30°	5135.8	4063.2	2036.4	1034.2	797.3	739.6	752.4	778.1	813.3	826.1	838.9
32.5°	5199.8	3877.4	1668.2	848.5	694.8	678.8	678.8	691.6	714.0	742.8	733.2
35°	5382.3	3771.8	1319.2	736.4	637.2	621.2	618.0	630.8	643.6	653.2	643.6
37.5°	5660.9	3688.5	1079.0	653.2	598.7	573.1	566.7	563.5	576.3	579.5	585.9
40°	6016.3	3733.4	915.7	601.9	560.3	531.5	512.3	512.3	512.3	521.9	525.1
42.5°	6400.5	3794.2	790.9	573.1	525.1	489.9	470.7	464.3	470.7	483.5	480.3
45°	6803.9	3912.7	710.8	528.3	493.1	448.3	422.6	416.2	432.3	457.9	454.7
47.5°	7181.8	4082.4	650.0	499.5	461.1	419.4	387.4	381.0	409.8	445.1	448.3
50°	7559.6	4376.9	627.6	477.1	438.7	390.6	361.8	355.4	387.4	432.3	441.9
52.5°	7995.0	4693.9	611.6	448.3	413.0	368.2	336.2	329.8	365.0	422.6	425.8
55°	8280.0	4962.9	598.7	397.0	365.0	333.0	307.4	304.2	342.6	393.8	406.6
57.5°	7947.0	4588.3	553.9	345.8	310.6	294.6	272.2	272.2	304.2	352.2	361.8
60°	6025.9	3019.4	393.8	278.6	262.6	252.9	243.3	243.3	269.0	304.2	307.4
62.5°	3528.4	1626.5	252.9	224.1	224.1	214.5	198.5	198.5	224.1	243.3	246.5
65°	1047.0	521.9	204.9	192.1	188.9	172.9	156.9	153.7	172.9	182.5	179.3
67.5°	301.0	240.1	169.7	160.1	156.9	131.3	121.7	118.5	121.7	115.3	112.1
70°	179.3	163.3	131.3	134.5	118.5	96.1	86.5	83.2	76.8	67.2	60.8
72.5°	99.3	99.3	96.1	102.5	83.2	64.0	54.4	44.8	35.2	28.8	25.6
75°	60.8	64.0	67.2	70.4	54.4	41.6	35.2	22.4	12.8	6.4	6.4
77.5°	41.6	44.8	48.0	51.2	44.8	38.4	28.8	16.0	3.2	0.0	0.0
80°	32.0	35.2	41.6	44.8	48.0	51.2	38.4	16.0	3.2	0.0	0.0
82.5°	35.2	38.4	48.0	44.8	44.8	44.8	35.2	16.0	3.2	0.0	0.0
85°	6.4	9.6	16.0	16.0	22.4	28.8	22.4	6.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)