

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: P528649

Luminaire Tested: **GALN-SA3D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528649  
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-SA3D-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA 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: 12299 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

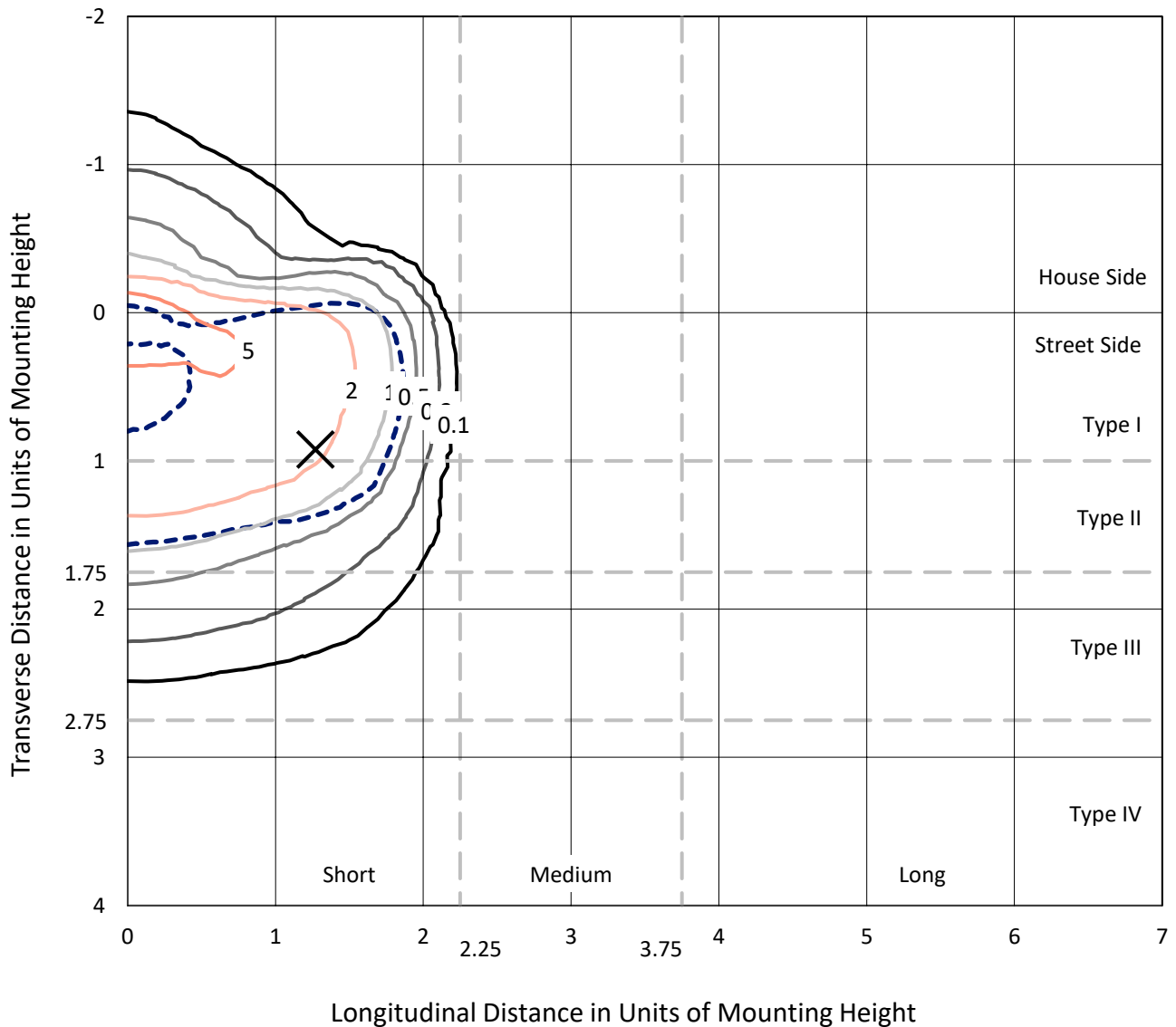
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

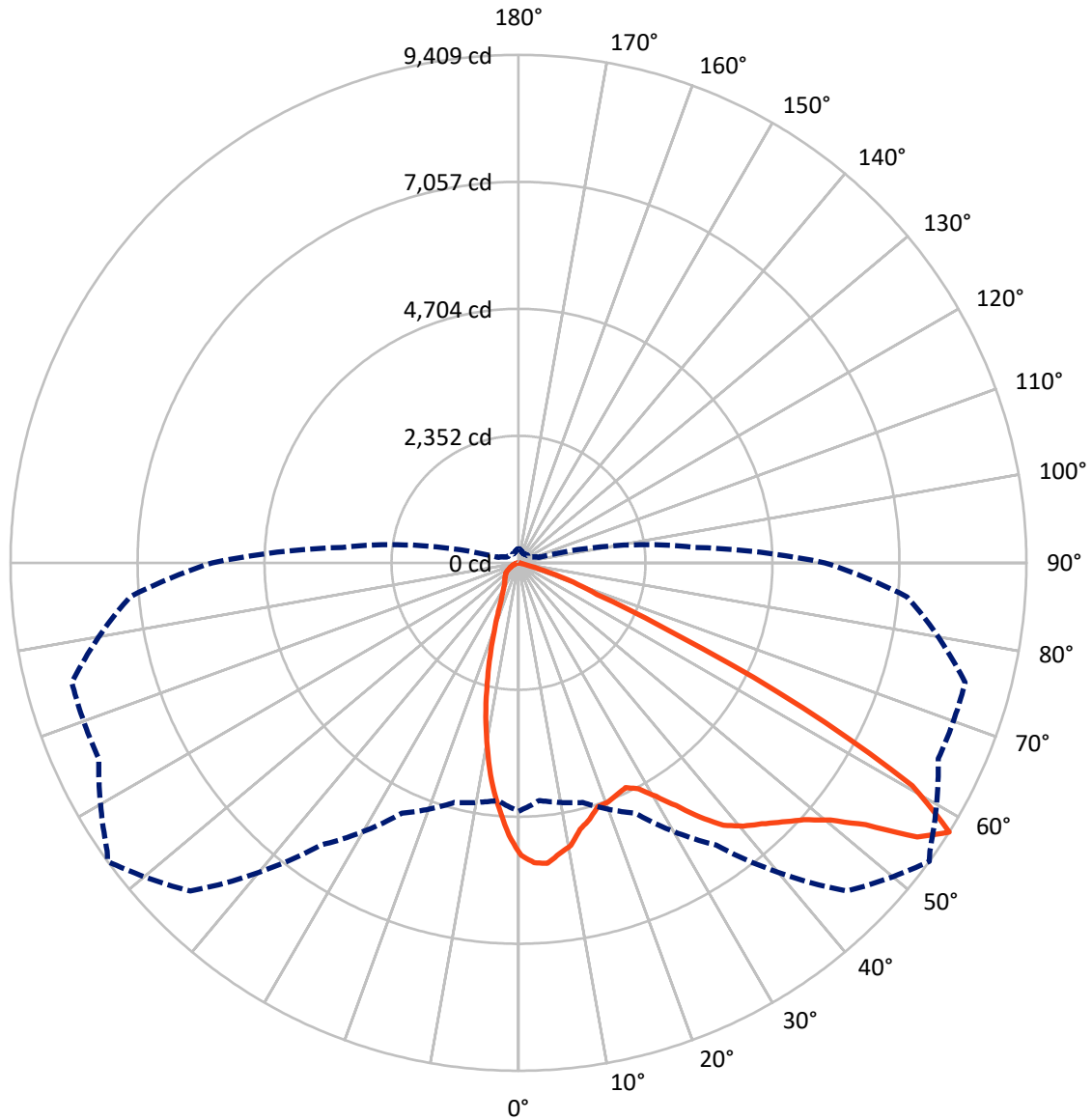
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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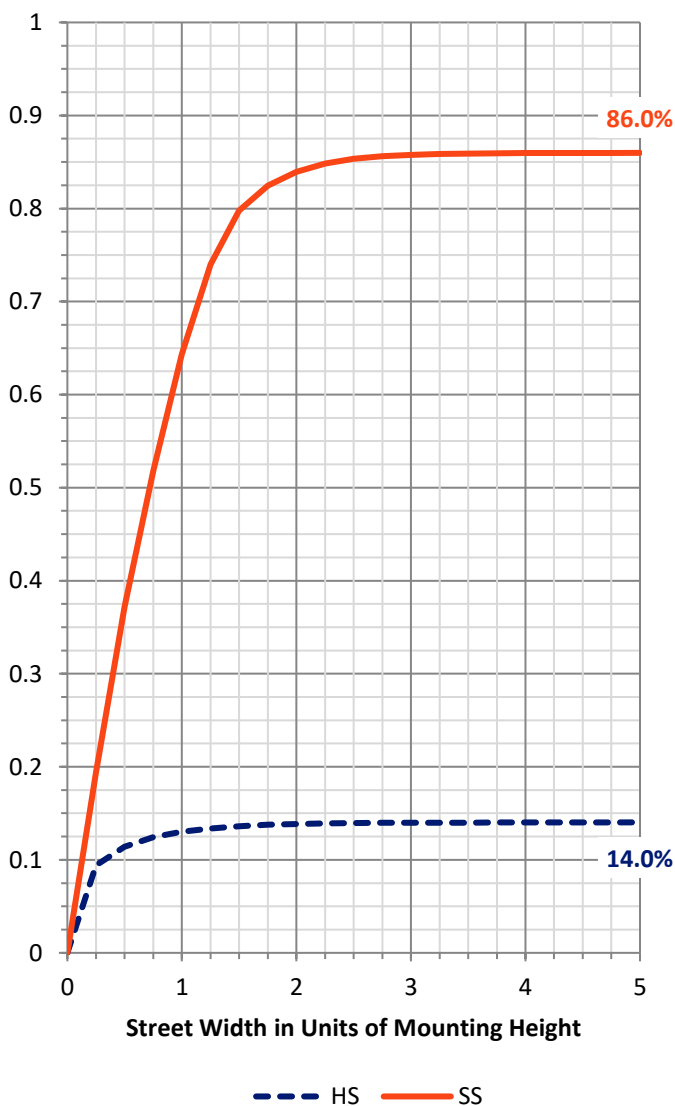
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1738.1	0.0	1738.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	10560.9	0.0	10560.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	12299.0	0.0	12299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.4	3.7
10°-20°	968.0	7.9
20°-30°	1282.7	10.4
30°-40°	1864.2	15.2
40°-50°	2764.3	22.5
50°-60°	3456.7	28.1
60°-70°	1363.5	11.1
70°-80°	135.8	1.1
80°-90°	10.6	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°	12299.0	100.0
0°-180°	12299.0	100.0

**Coefficient of Utilization**

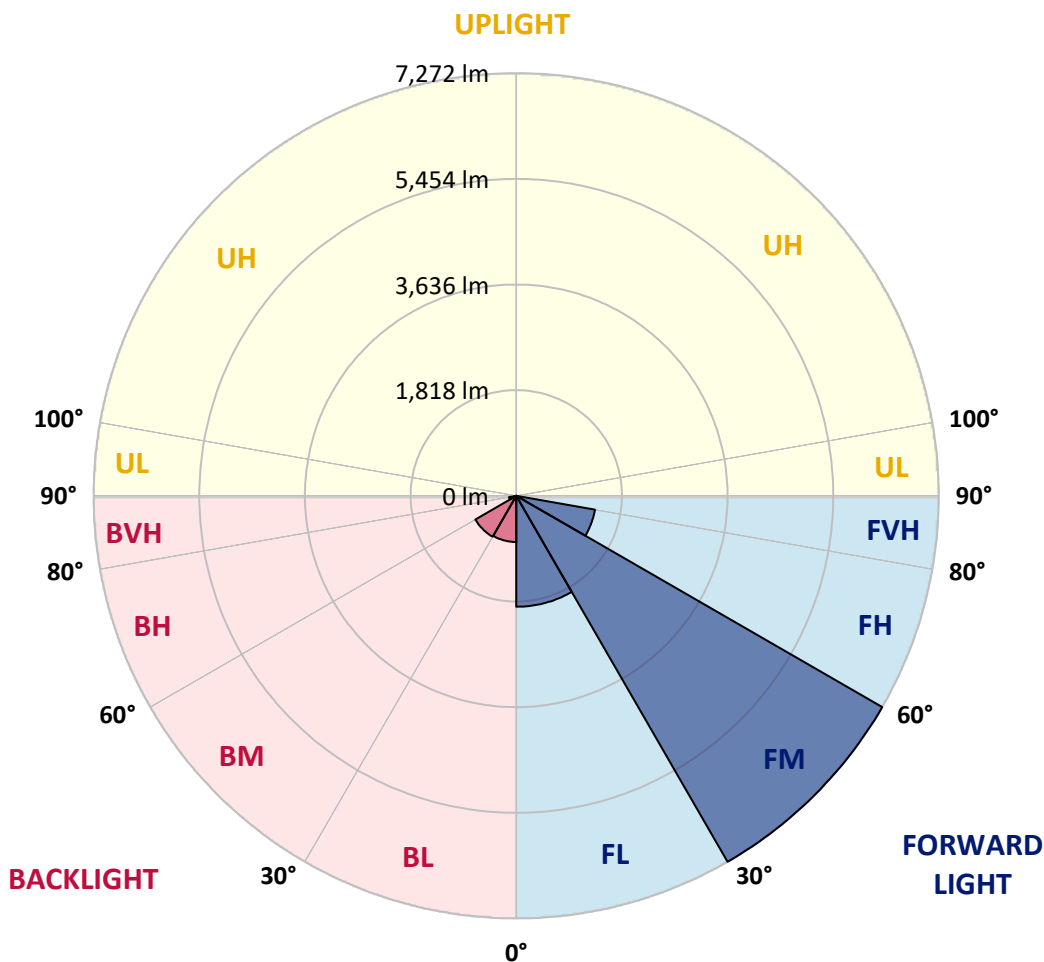


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.2	15.5			
FM (30°-60°)	7272.4	59.1			
FH (60°-80°)	1374.6	11.2			G1/1800
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	794.9	6.5	B2/1000		
BM (30°-60°)	812.8	6.6	B1/1000		
BH (60°-80°)	124.6	1.0	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9
2.5°	5733.5	5674.0	5678.6	5658.0	5630.6	5651.1	5562.0	5582.5	5580.3	5459.0	5379.0
5°	5589.4	5653.4	5587.1	5642.0	5589.4	5646.6	5591.7	5550.5	5484.2	5395.0	5246.4
7.5°	5344.7	5282.9	5301.2	5369.8	5381.3	5509.4	5440.7	5493.3	5465.9	5289.8	5086.3
10°	4853.0	4839.3	4930.7	5022.2	5134.3	5271.5	5324.1	5294.4	5273.8	5207.5	4935.3
12.5°	4475.6	4514.5	4512.2	4663.2	4853.0	4930.7	5068.0	5063.4	5177.7	5054.2	4793.5
15°	4116.6	4137.2	4233.2	4327.0	4537.4	4759.2	4928.5	4951.3	5088.5	5001.6	4683.8
17.5°	3897.0	3867.3	3942.8	4054.8	4269.8	4560.3	4747.8	4802.7	4990.2	4971.9	4558.0
20°	3679.8	3679.8	3741.5	3874.2	4070.8	4397.9	4731.8	4715.8	4990.2	4937.6	4423.0
22.5°	3606.6	3643.2	3659.2	3759.8	3993.1	4274.4	4663.2	4692.9	5029.1	4921.6	4363.6
25°	3707.2	3659.2	3663.8	3743.8	3963.4	4214.9	4612.9	4679.2	5100.0	5001.6	4315.5
27.5°	3723.2	3771.2	3785.0	3839.9	3986.2	4233.2	4738.6	4873.6	5276.1	5189.2	4329.3
30°	3862.7	3910.7	3908.5	4002.2	4102.9	4381.9	5019.9	5047.4	5639.7	5424.7	4413.9
32.5°	4032.0	4082.3	4098.3	4208.1	4288.1	4654.0	5363.0	5433.9	5989.6	5795.2	4635.7
35°	4242.4	4224.1	4297.3	4407.0	4578.6	5052.0	5781.5	5900.4	6367.0	6275.5	4864.4
37.5°	4505.4	4482.5	4553.4	4731.8	4965.1	5523.1	6168.0	6245.8	6641.4	6721.5	5287.5
40°	4690.6	4699.8	4914.7	5154.9	5401.9	5971.3	6412.7	6488.2	6833.5	7137.7	5607.7
42.5°	4999.4	5056.5	5315.0	5607.7	5866.1	6307.5	6611.7	6684.9	6922.7	7471.6	6039.9
45°	5447.6	5422.4	5708.3	6035.4	6321.2	6657.4	6847.2	6822.1	6975.3	7803.2	6312.1
47.5°	6023.9	6028.5	6218.3	6497.3	6794.6	6961.6	7110.2	7021.1	7085.1	8153.1	6675.7
50°	6417.3	6451.6	6604.8	6890.7	7039.3	7295.5	7485.3	7430.4	7409.8	8363.5	6904.4
52.5°	6517.9	6620.8	6703.2	7059.9	7407.6	7812.4	8054.8	8171.4	7805.5	8434.4	7194.9
55°	5758.6	5850.1	6140.6	6630.0	7547.1	8631.1	8965.0	8967.3	8322.4	8750.0	7398.4
57.5°	4603.7	4418.5	4596.8	5116.0	6380.7	8596.8	9408.7	9301.2	8580.8	8564.8	7222.3
60°	3183.5	3137.7	3149.2	3355.0	4416.2	6838.1	8384.1	8523.6	7901.5	7423.6	5717.5
62.5°	2522.5	2483.7	2433.4	2410.5	2742.1	4260.7	5914.2	6110.8	5525.4	4814.1	3389.3
65°	1976.0	1953.1	1959.9	2051.4	2049.1	2417.3	3233.8	3153.8	2524.8	1866.2	1065.7
67.5°	1333.3	1367.6	1395.1	1671.8	1813.6	1683.2	1562.0	1516.3	821.0	345.3	235.6
70°	750.1	754.7	784.4	1045.2	1376.8	1305.9	1077.2	1077.2	409.4	125.8	134.9
72.5°	409.4	395.6	368.2	450.5	612.9	622.1	480.3	418.5	121.2	82.3	75.5
75°	199.0	196.7	169.2	139.5	132.6	109.8	84.6	77.8	54.9	52.6	45.7
77.5°	41.2	38.9	20.6	20.6	22.9	25.2	32.0	32.0	38.9	38.9	32.0
80°	0.0	0.0	2.3	9.1	16.0	22.9	27.4	27.4	32.0	32.0	25.2
82.5°	0.0	0.0	2.3	6.9	13.7	20.6	25.2	27.4	32.0	34.3	27.4
85°	0.0	0.0	0.0	4.6	11.4	16.0	13.7	13.7	11.4	9.1	4.6
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°	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9	5417.9
2.5°	5337.8	5333.3	5228.1	5168.6	5061.1	4967.3	4891.9	4837.0	4837.0	4802.7	4770.7
5°	5186.9	5148.0	4923.9	4779.8	4576.3	4425.3	4322.4	4242.4	4116.6	4150.9	4016.0
7.5°	4999.4	4901.0	4603.7	4384.2	4102.9	3887.9	3668.3	3473.9	3286.4	3201.8	3247.5
10°	4798.1	4626.6	4226.4	3878.7	3528.8	3135.5	2879.3	2568.3	2376.2	2364.7	2314.4
12.5°	4585.4	4391.0	3903.9	3423.6	2963.9	2490.5	2099.5	1809.0	1678.6	1534.6	1562.0
15°	4425.3	4137.2	3544.8	2966.2	2355.6	1877.6	1484.3	1260.1	1136.6	1102.3	1090.9
17.5°	4251.5	3942.8	3178.9	2479.1	1847.9	1351.6	1068.0	960.5	912.5	912.5	905.6
20°	4070.8	3723.2	2815.3	2026.3	1385.9	1008.6	855.3	821.0	818.7	816.5	816.5
22.5°	3951.9	3471.6	2486.0	1610.0	1045.2	807.3	743.3	729.5	738.7	766.1	766.1
25°	3826.1	3229.2	2122.3	1241.8	809.6	693.0	656.4	665.5	688.4	713.5	704.4
27.5°	3698.1	3071.4	1779.3	974.3	663.2	606.1	592.3	612.9	638.1	660.9	654.1
30°	3668.3	2902.2	1454.5	738.7	569.5	528.3	537.4	555.7	580.9	590.0	599.2
32.5°	3714.1	2769.5	1191.5	606.1	496.3	484.8	484.8	494.0	510.0	530.6	523.7
35°	3844.4	2694.1	942.2	526.0	455.1	443.7	441.4	450.5	459.7	466.5	459.7
37.5°	4043.4	2634.6	770.7	466.5	427.7	409.4	404.8	402.5	411.7	413.9	418.5
40°	4297.3	2666.6	654.1	430.0	400.2	379.6	365.9	365.9	365.9	372.8	375.1
42.5°	4571.7	2710.1	564.9	409.4	375.1	349.9	336.2	331.6	336.2	345.3	343.0
45°	4859.8	2794.7	507.7	377.4	352.2	320.2	301.9	297.3	308.7	327.0	324.8
47.5°	5129.7	2915.9	464.3	356.8	329.3	299.6	276.7	272.2	292.7	317.9	320.2
50°	5399.6	3126.3	448.2	340.8	313.3	279.0	258.4	253.9	276.7	308.7	315.6
52.5°	5710.6	3352.7	436.8	320.2	295.0	263.0	240.1	235.6	260.7	301.9	304.2
55°	5914.2	3544.8	427.7	283.6	260.7	237.8	219.6	217.3	244.7	281.3	290.4
57.5°	5676.3	3277.3	395.6	247.0	221.8	210.4	194.4	194.4	217.3	251.6	258.4
60°	4304.1	2156.6	281.3	199.0	187.5	180.7	173.8	173.8	192.1	217.3	219.6
62.5°	2520.3	1161.8	180.7	160.1	160.1	153.2	141.8	141.8	160.1	173.8	176.1
65°	747.8	372.8	146.4	137.2	134.9	123.5	112.1	109.8	123.5	130.4	128.1
67.5°	215.0	171.5	121.2	114.3	112.1	93.8	86.9	84.6	86.9	82.3	80.0
70°	128.1	116.6	93.8	96.1	84.6	68.6	61.7	59.5	54.9	48.0	43.5
72.5°	70.9	70.9	68.6	73.2	59.5	45.7	38.9	32.0	25.2	20.6	18.3
75°	43.5	45.7	48.0	50.3	38.9	29.7	25.2	16.0	9.1	4.6	4.6
77.5°	29.7	32.0	34.3	36.6	32.0	27.4	20.6	11.4	2.3	0.0	0.0
80°	22.9	25.2	29.7	32.0	34.3	36.6	27.4	11.4	2.3	0.0	0.0
82.5°	25.2	27.4	34.3	32.0	32.0	32.0	25.2	11.4	2.3	0.0	0.0
85°	4.6	6.9	11.4	11.4	16.0	20.6	16.0	4.6	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)