

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: P534299

Luminaire Tested: **GALN-SA9D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43207 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

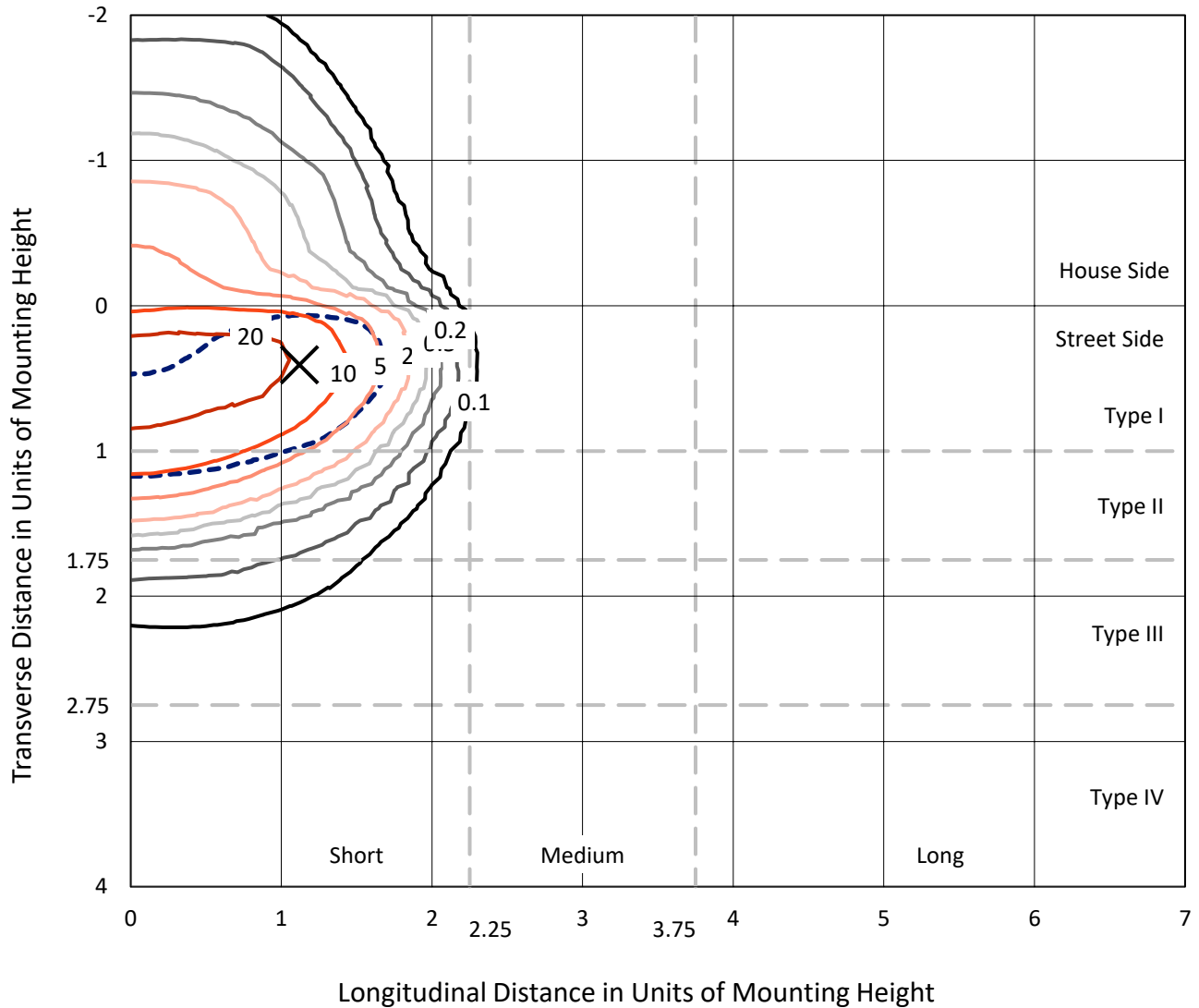
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

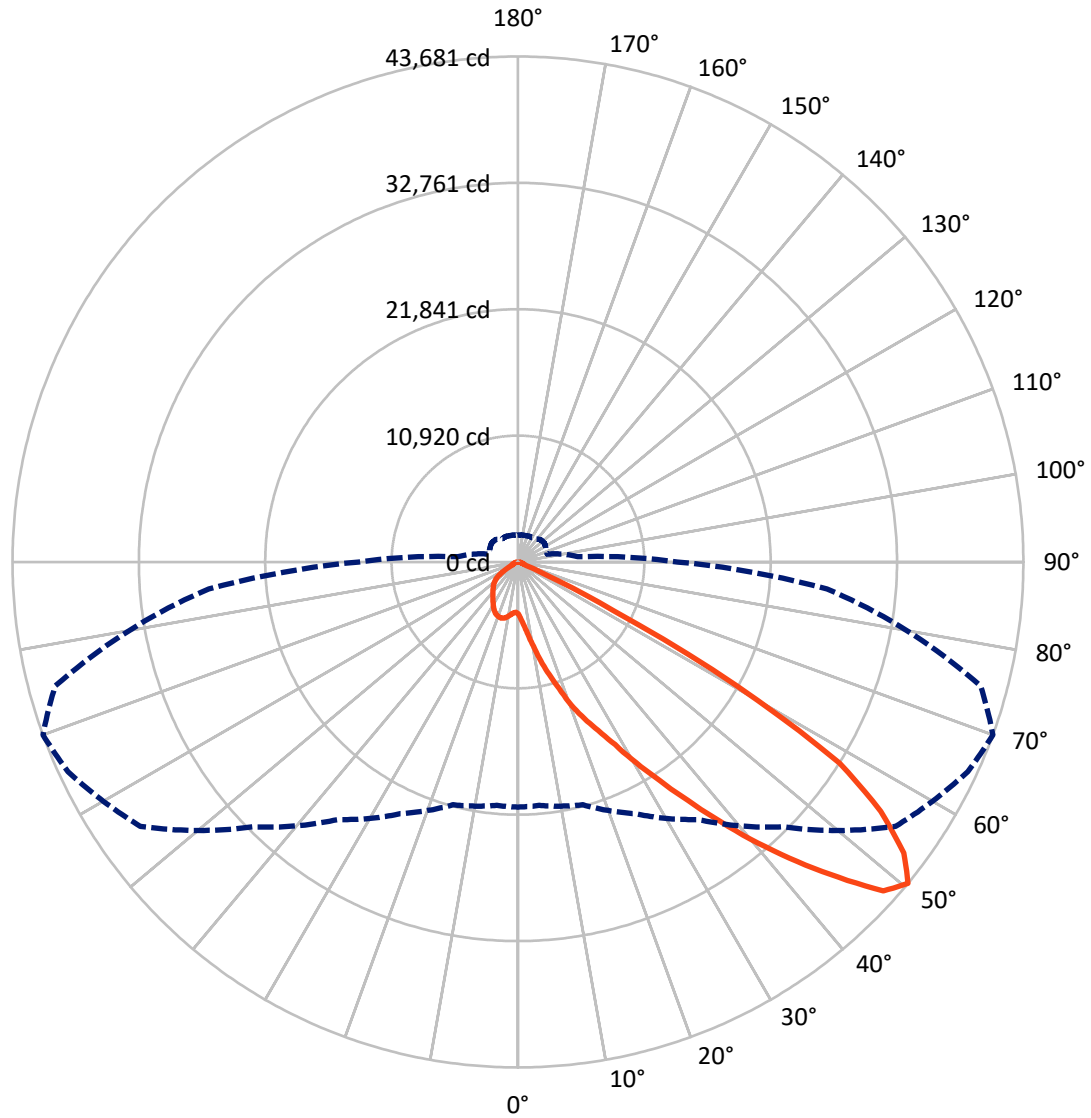
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6034.1	0.0	6034.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	37172.8	0.0	37172.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	43207.0	0.0	43207.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.0	1.3
10°-20°	2517.4	5.8
20°-30°	5281.0	12.2
30°-40°	9102.7	21.1
40°-50°	13303.5	30.8
50°-60°	10361.3	24.0
60°-70°	1755.5	4.1
70°-80°	241.2	0.6
80°-90°	62.5	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°	43207.0	100.0
0°-180°	43207.0	100.0

**Coefficient of Utilization**



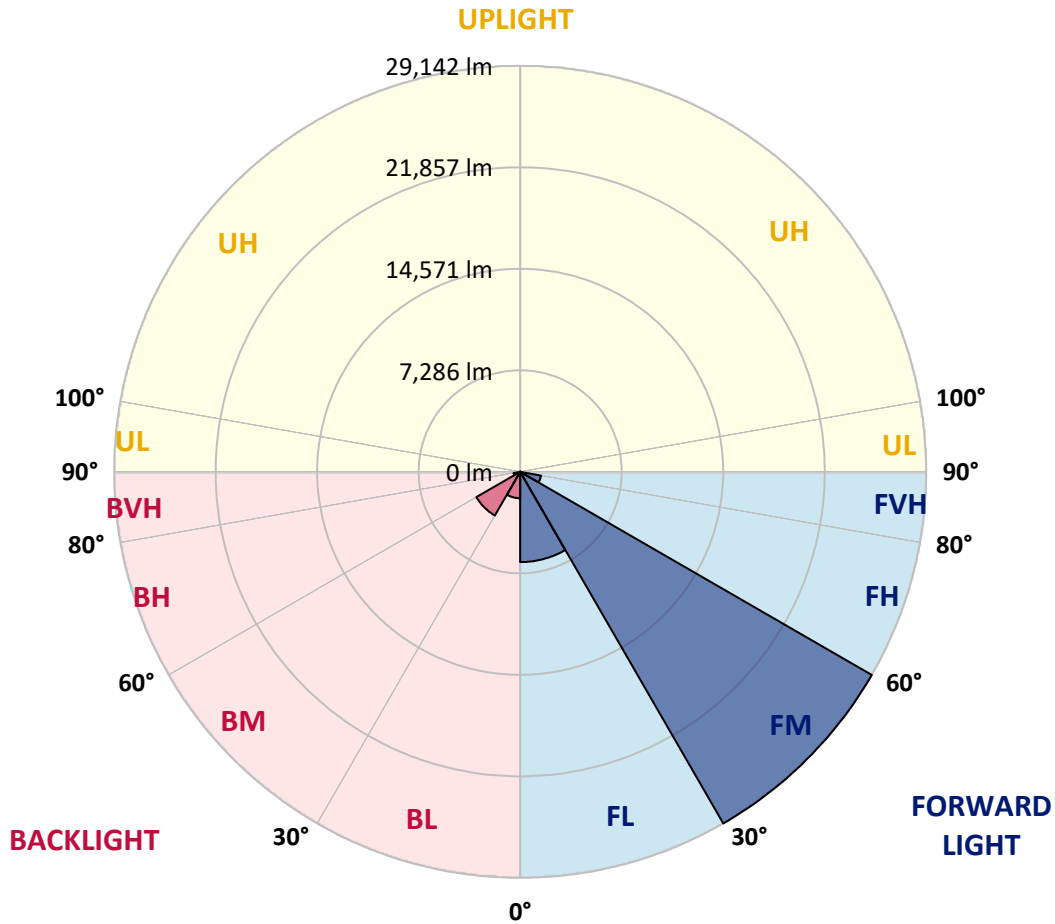
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6481.6	15.0			
FM (30°-60°)	29142.4	67.4			
FH (60°-80°)	1520.0	3.5			G1/1800
FVH (80°-90°)	28.9	0.1			G1/100
BL (0°-30°)	1898.8	4.4	B3/2500		
BM (30°-60°)	3625.1	8.4	B3/5000		
BH (60°-80°)	476.6	1.1	B1/500		G1/500
BVH (80°-90°)	33.6	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4
2.5°	5860.6	5818.0	5725.7	5555.2	5484.1	5313.6	5214.2	5022.4	4901.6	4766.7	4617.5
5°	8254.6	8034.4	7899.4	7707.6	7146.4	6798.3	6222.9	5732.8	5505.4	5256.8	4915.8
7.5°	10726.7	10584.7	10400.0	9987.9	9604.3	8879.8	7892.3	6812.5	6350.8	5924.6	5249.7
10°	12772.6	12374.8	12353.5	12048.0	11628.9	10762.3	9575.9	8233.3	7409.3	6784.1	5725.7
12.5°	14200.5	13838.2	14001.6	13966.1	13575.4	12779.7	11408.7	9632.8	8773.2	7800.0	6215.8
15°	15500.5	15351.3	15301.6	15259.0	15102.7	14513.1	13284.1	11337.7	10094.5	8922.4	6769.9
17.5°	16772.1	16388.5	16573.2	16608.7	16594.5	16061.7	14910.9	12957.3	11493.9	10108.7	7352.4
20°	17901.6	17937.1	17688.5	17638.7	17596.1	17574.8	16452.4	14562.8	13213.1	11351.9	8112.5
22.5°	19350.8	19102.1	19322.3	19180.3	18903.2	18732.7	17873.2	15983.6	14704.9	12850.8	8886.9
25°	21062.8	21261.7	20743.1	20686.3	20380.8	19791.2	19016.9	17574.8	16139.8	14243.1	9725.1
27.5°	23172.6	22824.5	22689.5	22377.0	21822.9	21574.2	20665.0	19215.8	17873.2	15706.5	10534.9
30°	24984.1	24891.7	24216.9	23847.5	23364.4	23357.3	22085.7	21439.3	20132.2	18001.0	11650.2
32.5°	26461.7	26056.7	25808.1	25552.4	25161.7	25268.2	24195.5	23854.6	22540.4	20132.2	12964.4
35°	27449.1	27157.8	27008.6	26617.9	26504.3	26980.2	26532.7	26390.6	25310.8	23130.0	14506.0
37.5°	27761.7	27854.0	27825.6	27335.4	27577.0	28862.7	29438.1	29068.8	28500.4	26291.2	16175.4
40°	28038.7	28102.6	27960.6	28536.0	29225.0	30688.4	32769.8	32158.9	31945.8	29495.0	18498.3
42.5°	28195.0	28145.3	28145.3	29139.8	30184.0	33125.0	35987.9	35582.9	35419.5	32904.8	21183.5
45°	27520.1	27037.1	27555.6	28905.4	31008.1	34325.6	38559.4	39120.6	38886.2	36961.1	24323.4
47.5°	24998.3	25296.6	25587.9	27392.3	30006.5	33956.2	40136.5	42047.4	42480.7	40370.9	26383.5
50°	21183.5	21119.6	21723.4	23996.6	27172.0	32364.9	39831.0	42892.7	43681.3	41393.8	26816.8
52.5°	15408.1	15877.0	16530.5	18789.6	22554.6	28244.7	35888.4	40711.9	41763.2	40136.5	26532.7
55°	8972.1	8453.5	9924.0	11834.9	15386.8	21304.3	30340.3	36087.3	38033.7	37849.0	25097.7
57.5°	3594.5	3480.9	3985.2	5370.5	8027.3	13206.0	22064.4	29651.3	32769.8	34666.5	22057.3
60°	1577.0	1541.5	1811.5	2188.0	3282.0	6088.0	12069.4	18441.5	21695.0	24224.0	15180.8
62.5°	1136.6	1122.4	1257.4	1392.3	1733.3	2649.7	5072.1	7430.6	9263.4	11188.5	6798.3
65°	916.4	951.9	1044.3	1115.3	1278.7	1470.5	1790.2	2067.2	2536.1	2628.4	1498.9
67.5°	745.9	774.3	859.6	937.7	966.1	795.6	824.0	724.6	724.6	646.4	518.6
70°	547.0	554.1	653.5	745.9	596.7	319.7	561.2	561.2	504.4	483.1	440.4
72.5°	404.9	412.0	490.2	461.7	234.4	198.9	412.0	454.6	412.0	390.7	355.2
75°	298.4	305.5	255.7	106.6	99.5	127.9	241.5	312.6	298.4	291.3	269.9
77.5°	56.8	42.6	35.5	49.7	71.0	106.6	156.3	191.8	198.9	213.1	198.9
80°	7.1	7.1	21.3	42.6	78.1	113.7	163.4	184.7	191.8	198.9	184.7
82.5°	0.0	7.1	21.3	42.6	78.1	106.6	142.1	163.4	177.6	184.7	177.6
85°	0.0	7.1	14.2	35.5	63.9	78.1	71.0	49.7	42.6	49.7	35.5
87.5°	0.0	0.0	7.1	7.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2
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°	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4	4475.4
2.5°	4532.2	4503.8	4404.4	4297.8	4205.4	4248.1	4205.4	4169.9	4184.1	4169.9	4155.7
5°	4780.9	4653.0	4439.9	4347.5	4269.4	4262.3	4241.0	4233.9	4241.0	4241.0	4177.0
7.5°	5015.3	4809.3	4582.0	4482.5	4390.1	4397.3	4347.5	4347.5	4340.4	4304.9	4290.7
10°	5370.5	5093.4	4802.2	4624.6	4510.9	4489.6	4439.9	4390.1	4390.1	4390.1	4319.1
12.5°	5761.2	5413.1	5015.3	4809.3	4674.3	4567.7	4489.6	4475.4	4397.3	4383.0	4347.5
15°	6102.2	5661.7	5157.4	4873.2	4702.7	4560.6	4439.9	4361.7	4326.2	4304.9	4276.5
17.5°	6436.0	5874.8	5235.5	4873.2	4688.5	4525.1	4397.3	4326.2	4241.0	4255.2	4198.3
20°	6883.6	6102.2	5256.8	4780.9	4553.5	4397.3	4226.8	4191.2	4141.5	4098.9	4113.1
22.5°	7316.9	6265.6	5192.9	4667.2	4340.4	4155.7	4070.5	4027.9	4006.5	3971.0	3921.3
25°	7707.6	6443.1	5093.4	4461.2	4113.1	3978.1	3900.0	3892.9	3843.2	3843.2	3750.8
27.5°	8105.4	6507.1	4922.9	4219.7	3914.2	3836.1	3800.5	3786.3	3765.0	3715.3	3651.4
30°	8560.1	6528.4	4674.3	3971.0	3736.6	3651.4	3701.1	3736.6	3644.2	3551.9	3580.3
32.5°	8936.6	6478.7	4375.9	3736.6	3608.7	3566.1	3665.6	3701.1	3594.5	3495.1	3445.3
35°	9391.2	6357.9	4084.7	3551.9	3480.9	3566.1	3651.4	3651.4	3438.2	3317.5	3289.1
37.5°	10080.3	6222.9	3814.7	3395.6	3345.9	3523.5	3637.1	3559.0	3225.1	3075.9	3040.4
40°	10819.1	6137.7	3551.9	3239.3	3274.9	3452.4	3516.4	3274.9	2933.9	2841.5	2813.1
42.5°	11891.8	5967.2	3317.5	3104.4	3210.9	3353.0	3353.0	2919.7	2791.8	2742.1	2735.0
45°	13227.3	5846.4	3111.5	2990.7	3118.6	3154.1	3040.4	2735.0	2642.6	2628.4	2635.5
47.5°	13880.8	5612.0	2898.4	2855.7	2948.1	2955.2	2656.8	2585.8	2507.6	2486.3	2472.1
50°	13781.4	5192.9	2621.3	2678.1	2806.0	2735.0	2422.4	2436.6	2365.6	2358.5	2322.9
52.5°	13085.2	4532.2	2344.3	2479.2	2621.3	2415.3	2230.6	2216.4	2216.4	2124.0	2088.5
55°	11600.5	3651.4	2010.4	2180.9	2351.4	2031.7	1982.0	1967.8	1932.2	1847.0	1825.7
57.5°	9185.2	2678.1	1513.1	1697.8	1996.2	1726.2	1719.1	1655.2	1562.8	1498.9	1498.9
60°	5462.8	1541.5	951.9	1037.2	1321.3	1399.4	1555.7	1527.3	1371.0	1271.6	1243.2
62.5°	2493.4	795.6	603.8	618.0	710.4	909.3	1221.9	1413.7	1193.4	1022.9	1008.7
65°	838.2	589.6	497.3	476.0	490.2	547.0	731.7	1001.6	951.9	788.5	760.1
67.5°	511.5	525.7	468.9	433.3	433.3	426.2	419.1	454.6	561.2	547.0	554.1
70°	440.4	483.1	433.3	390.7	376.5	355.2	298.4	248.6	213.1	248.6	262.8
72.5°	355.2	383.6	369.4	333.9	298.4	269.9	213.1	163.4	120.8	106.6	106.6
75°	262.8	284.2	298.4	255.7	227.3	191.8	156.3	106.6	63.9	42.6	42.6
77.5°	191.8	213.1	220.2	198.9	170.5	135.0	99.5	71.0	35.5	14.2	14.2
80°	163.4	191.8	213.1	198.9	177.6	127.9	92.3	49.7	28.4	7.1	7.1
82.5°	156.3	191.8	213.1	191.8	170.5	120.8	92.3	56.8	21.3	7.1	7.1
85°	35.5	49.7	63.9	78.1	92.3	92.3	71.0	42.6	21.3	7.1	7.1
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	7.1	7.1	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)