

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: P531588

Luminaire Tested: **GALN-SA6D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-827-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28529 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

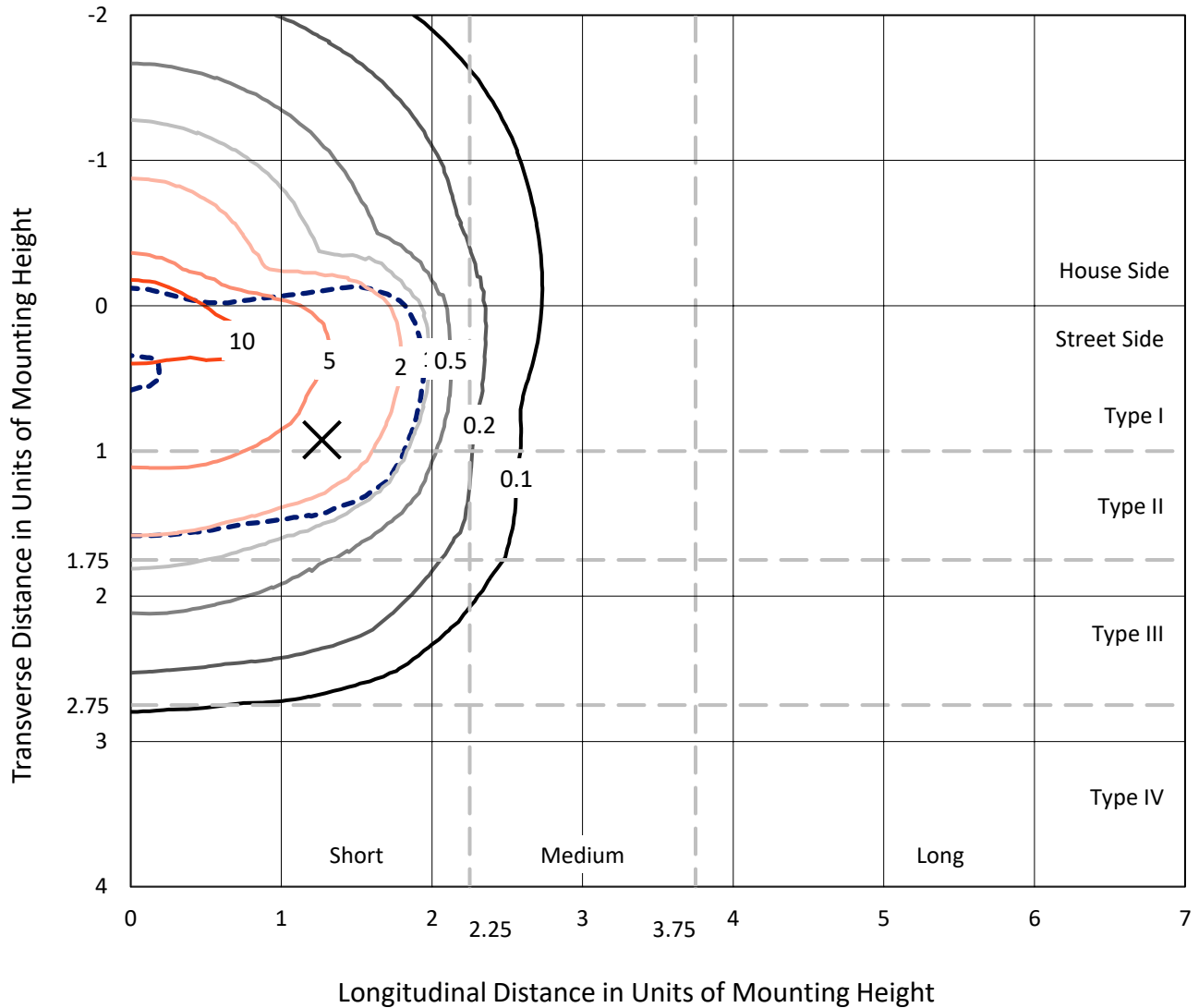
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

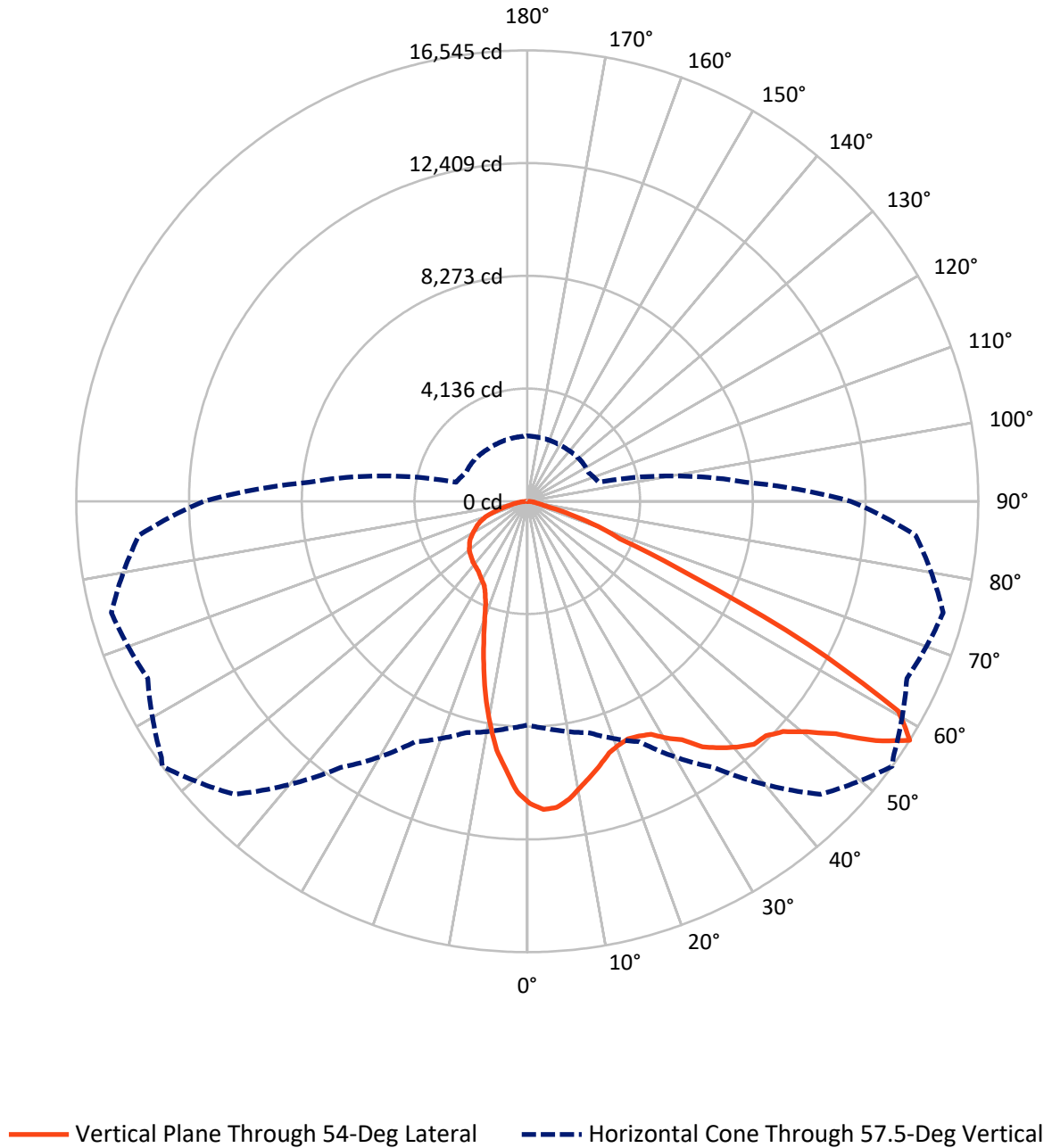
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7892.7	0.0	7892.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	20636.3	0.0	20636.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	28529.0	0.0	28529.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	956.3	3.4
10°-20°	2214.2	7.8
20°-30°	3111.0	10.9
30°-40°	4349.2	15.2
40°-50°	5888.0	20.6
50°-60°	7171.8	25.1
60°-70°	3735.4	13.1
70°-80°	957.1	3.4
80°-90°	146.0	0.5
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°	28529.0	100.0
0°-180°	28529.0	100.0

**Coefficient of Utilization**



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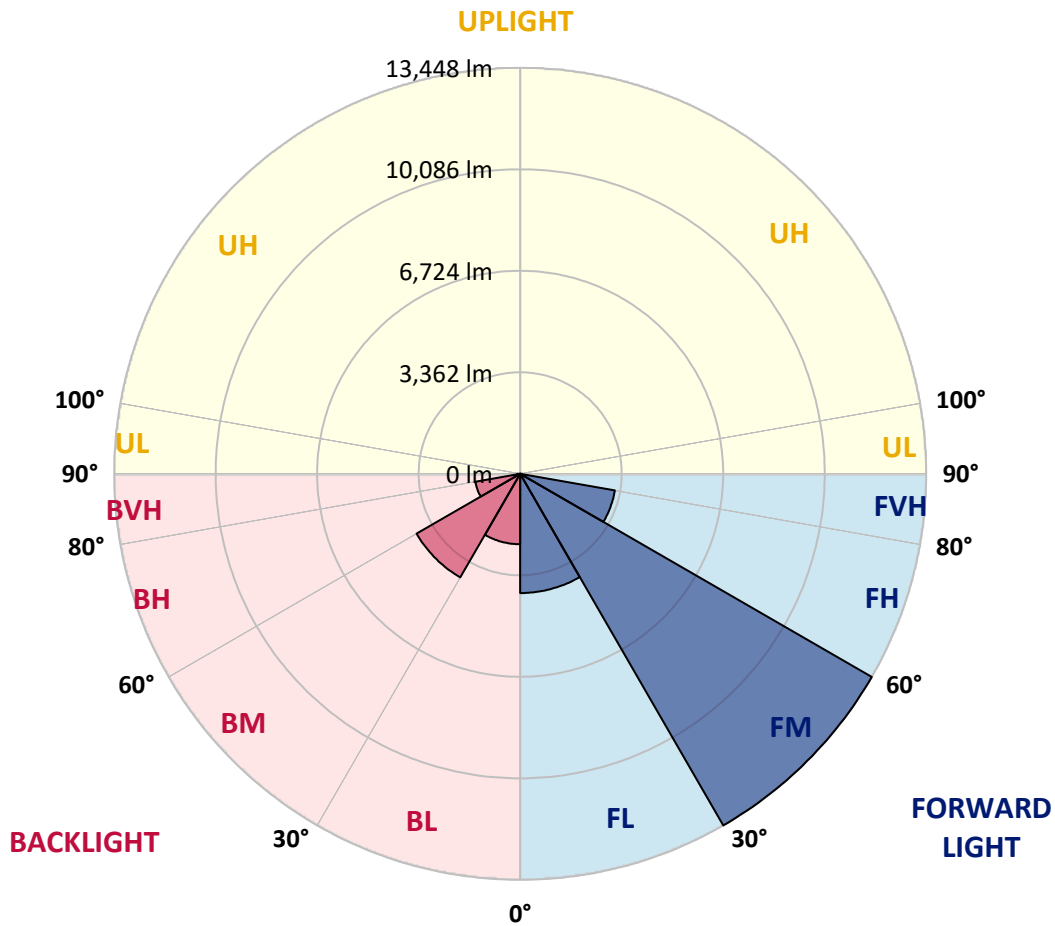
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3948.8	13.8			
FM (30°-60°)	13447.7	47.1			
FH (60°-80°)	3184.6	11.2			G2/5000
FVH (80°-90°)	55.2	0.2			G1/100
BL (0°-30°)	2332.7	8.2	B3/2500		
BM (30°-60°)	3961.3	13.9	B3/5000		
BH (60°-80°)	1507.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	90.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9
2.5°	11404.3	11360.3	11367.6	11426.3	11352.9	11323.6	11323.6	11180.6	11191.6	11092.6	11066.9
5°	11140.2	11037.6	11107.2	11195.2	11209.9	11239.2	11286.9	11250.2	11147.6	11041.2	10868.9
7.5°	10450.8	10542.5	10568.2	10630.5	10762.5	10883.5	11033.9	10931.2	10927.5	10821.2	10718.5
10°	9845.8	9790.8	9930.1	10021.8	10241.8	10443.5	10674.5	10663.5	10718.5	10597.5	10421.5
12.5°	9244.4	9200.4	9266.4	9475.4	9783.5	10076.8	10351.8	10249.2	10542.5	10520.5	10142.8
15°	8606.4	8639.4	8734.7	8929.1	9332.4	9684.4	10032.8	10036.5	10296.8	10384.8	9878.8
17.5°	8159.0	8122.3	8243.3	8533.0	8892.4	9314.1	9710.1	9790.8	10190.5	10241.8	9798.1
20°	7825.3	7876.6	8034.3	8181.0	8595.4	9105.1	9552.4	9581.8	10168.5	10307.8	9669.8
22.5°	7744.6	7715.3	7766.6	8005.0	8346.0	8899.7	9468.1	9578.1	10164.8	10285.8	9427.8
25°	7660.3	7755.6	7752.0	7990.3	8239.7	8734.7	9537.8	9658.8	10359.2	10399.5	9460.8
27.5°	7851.0	7840.0	7942.6	7961.0	8269.0	8778.7	9684.4	9776.1	10681.9	10648.9	9486.4
30°	8041.6	7986.6	8049.0	8265.3	8408.3	9031.7	10087.8	10080.5	11099.9	11077.9	9567.1
32.5°	8276.3	8250.7	8291.0	8481.7	8723.7	9369.1	10428.8	10645.2	11525.3	11664.6	9845.8
35°	8320.3	8426.7	8522.0	8778.7	9123.4	9915.5	11070.6	11250.2	12016.6	12453.0	10377.5
37.5°	8599.0	8639.4	8863.0	9317.8	9633.1	10645.2	11477.6	11591.3	12464.0	12959.0	10938.6
40°	8896.1	8943.7	9281.1	9757.8	10190.5	11121.9	11859.0	11895.6	12607.0	13347.7	11305.2
42.5°	9299.4	9343.4	9677.1	10274.8	10854.2	11528.9	12196.3	12236.7	12596.0	13795.1	11888.3
45°	9717.5	9823.8	10216.2	10894.5	11415.3	12005.6	12273.3	12438.3	12698.7	14194.8	12361.3
47.5°	10304.2	10403.2	10725.9	11389.6	11998.3	12423.7	12629.0	12790.4	12944.4	14543.2	12665.7
50°	10927.5	10945.9	11338.2	11939.6	12387.0	12896.7	13292.7	13347.7	13267.1	14946.5	13182.7
52.5°	11385.9	11444.6	11748.9	12335.7	13003.1	13630.1	14172.8	14231.5	14073.8	15096.9	13358.7
55°	10626.9	10593.9	11088.9	11870.0	13417.4	14722.9	15511.3	15555.3	14660.5	15562.6	13934.5
57.5°	8214.0	8371.7	8793.4	9735.8	11921.3	15206.9	16545.3	16387.7	15364.6	15797.3	14301.2
60°	5969.8	5933.1	6215.5	6846.2	8984.1	13105.7	15643.3	15804.6	14788.9	14238.8	11793.0
62.5°	4862.4	4811.1	4833.1	4855.1	5797.5	8698.0	11580.3	11576.6	11389.6	10234.5	7953.6
65°	3887.0	4008.0	4019.0	4184.0	4305.0	5196.1	6710.5	7069.9	6156.8	5049.4	3663.3
67.5°	2929.9	2885.9	3032.6	3619.3	3846.6	3751.3	3663.3	3703.6	2632.9	1899.5	1789.5
70°	1727.1	1708.8	1884.8	2522.9	3168.3	2981.2	2761.2	2764.9	1807.8	1327.4	1477.8
72.5°	946.1	942.4	979.1	1279.8	1800.5	1870.2	1657.5	1708.8	1078.1	1074.4	1155.1
75°	528.0	517.0	506.0	564.7	649.1	685.7	700.4	707.7	740.7	828.7	861.7
77.5°	194.3	187.0	187.0	216.4	275.0	344.7	436.4	443.7	524.4	601.4	634.4
80°	66.0	73.3	99.0	135.7	183.3	245.7	297.0	304.4	370.4	421.7	432.7
82.5°	40.3	44.0	66.0	95.3	132.0	172.3	220.0	223.7	275.0	308.0	322.7
85°	18.3	22.0	36.7	58.7	84.3	113.7	117.3	117.3	113.7	117.3	110.0
87.5°	0.0	0.0	7.3	7.3	7.3	11.0	14.7	11.0	18.3	22.0	22.0
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°	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9	11088.9
2.5°	10989.9	10949.6	10824.9	10714.9	10681.9	10535.2	10318.8	10344.5	10186.8	10260.2	10183.2
5°	10839.5	10703.9	10384.8	10249.2	9893.5	9732.1	9622.1	9347.1	9218.7	9193.1	9083.1
7.5°	10454.5	10370.2	9970.5	9603.8	9226.1	8903.4	8489.0	8206.7	8005.0	7950.0	7788.6
10°	10150.2	9963.1	9409.4	8852.0	8313.0	7752.0	7212.9	6791.2	6585.9	6347.5	6266.8
12.5°	9849.5	9567.1	8819.0	8104.0	7407.3	6699.5	6046.8	5533.4	5086.1	4979.7	4943.1
15°	9662.4	9171.1	8291.0	7429.3	6439.2	5515.1	4862.4	4525.0	4250.0	4136.3	4217.0
17.5°	9416.8	8844.7	7785.0	6637.2	5548.1	4697.4	4151.0	3942.0	3843.0	3854.0	3821.0
20°	9108.7	8536.7	7121.2	5918.5	4752.4	4074.0	3762.3	3685.3	3700.0	3725.6	3714.6
22.5°	8888.7	8162.7	6640.9	5185.1	4107.0	3729.3	3601.0	3546.0	3593.6	3615.6	3597.3
25°	8720.0	7843.6	6057.8	4536.0	3733.0	3535.0	3476.3	3472.6	3546.0	3575.3	3557.0
27.5°	8566.0	7546.6	5478.4	4041.0	3483.6	3384.6	3366.3	3410.3	3457.9	3487.3	3513.0
30°	8474.4	7319.3	4935.7	3626.6	3358.9	3311.3	3278.3	3318.6	3344.3	3373.6	3358.9
32.5°	8562.4	7157.9	4411.4	3391.9	3256.3	3208.6	3252.6	3226.9	3270.9	3296.6	3256.3
35°	8837.4	7014.9	4037.3	3267.3	3138.9	3157.3	3164.6	3153.6	3171.9	3149.9	3197.6
37.5°	9108.7	6963.6	3692.6	3160.9	3083.9	3083.9	3076.6	3054.6	3091.2	3083.9	3105.9
40°	9453.4	6996.6	3399.3	3047.2	3032.6	3025.2	2995.9	2992.2	2977.6	2981.2	2988.6
42.5°	9754.1	7069.9	3230.6	2973.9	2984.9	2999.6	2944.6	2900.6	2918.9	2882.2	2882.2
45°	10073.1	7135.9	3080.2	2922.6	2911.6	2907.9	2863.9	2838.2	2823.6	2827.2	2860.2
47.5°	10575.5	7231.3	2966.6	2852.9	2860.2	2805.2	2794.2	2761.2	2775.9	2797.9	2801.6
50°	10931.2	7432.9	2878.6	2772.2	2797.9	2761.2	2695.2	2680.5	2680.5	2717.2	2709.9
52.5°	11180.6	7715.3	2794.2	2684.2	2695.2	2665.9	2643.9	2610.9	2588.9	2640.2	2665.9
55°	11943.3	8184.7	2772.2	2610.9	2607.2	2577.9	2537.5	2504.5	2493.5	2500.9	2552.2
57.5°	11870.0	8038.0	2702.6	2482.5	2475.2	2434.9	2394.5	2383.5	2379.9	2387.2	2401.9
60°	9636.8	5936.8	2412.9	2335.9	2324.9	2317.5	2277.2	2233.2	2211.2	2233.2	2214.8
62.5°	6376.8	3975.0	2126.8	2159.8	2167.2	2148.8	2082.8	2038.8	2046.2	2071.8	2031.5
65°	3131.6	2335.9	1928.8	2016.8	2024.2	1972.8	1910.5	1859.2	1833.5	1855.5	1837.1
67.5°	1789.5	1785.8	1767.5	1859.2	1855.5	1804.1	1705.1	1661.1	1617.1	1624.5	1613.5
70°	1518.1	1547.5	1584.1	1639.1	1635.5	1576.8	1459.5	1426.4	1364.1	1356.8	1338.4
72.5°	1195.4	1246.8	1327.4	1367.8	1334.8	1261.4	1184.4	1129.4	1074.4	1041.4	1052.4
75°	887.4	960.7	1004.7	1030.4	979.1	938.7	876.4	810.4	744.4	715.1	704.1
77.5°	645.4	667.4	707.7	726.1	693.1	652.7	616.0	550.0	487.7	447.4	436.4
80°	451.0	465.7	495.0	495.0	495.0	476.7	429.0	363.0	322.7	286.0	278.7
82.5°	315.4	330.0	359.4	344.7	341.0	319.0	289.7	238.4	194.3	168.7	161.3
85°	110.0	121.0	146.7	176.0	187.0	183.3	165.0	132.0	102.7	84.3	77.0
87.5°	25.7	25.7	29.3	25.7	25.7	29.3	25.7	25.7	25.7	18.3	14.7
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)