

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: P531378

Luminaire Tested: **GALN-SA6C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28079 lumens
Efficiency: N/A
Efficacy: 87.5 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): 321
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



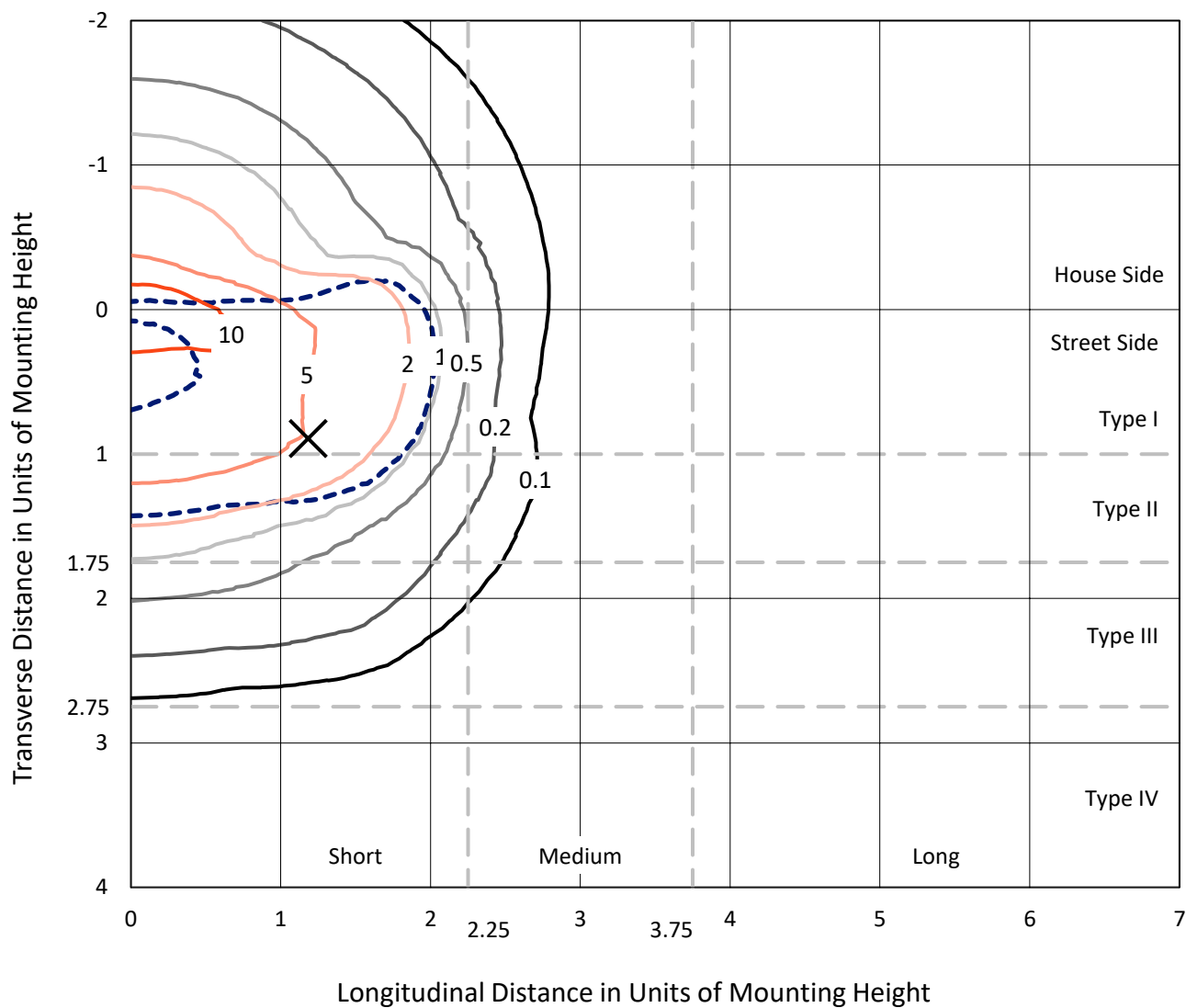
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

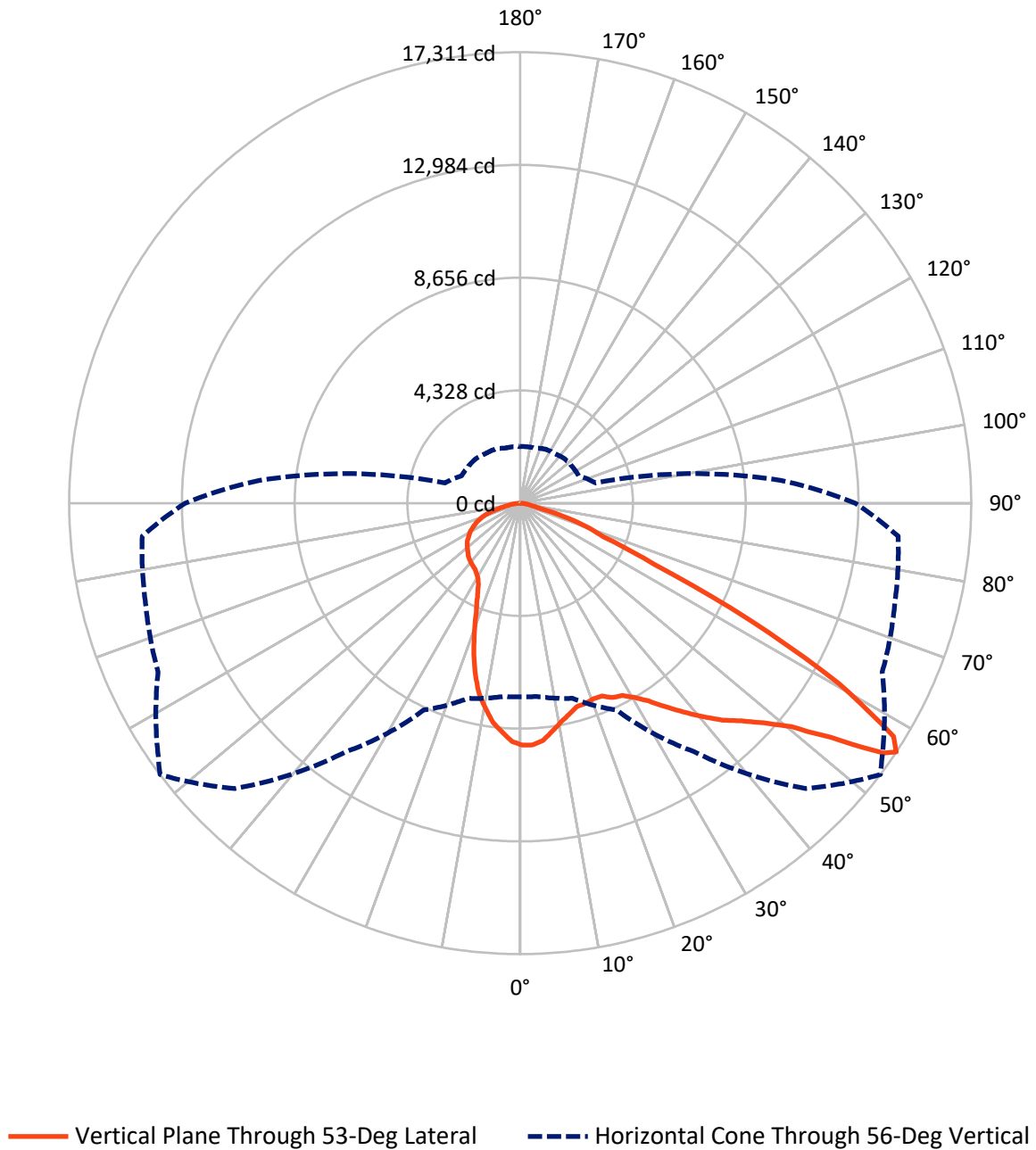


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8194.1	0.0	8194.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	19884.9	0.0	19884.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	28079.0	0.0	28079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.4	2.9
10°-20°	2054.0	7.3
20°-30°	3028.8	10.8
30°-40°	4327.6	15.4
40°-50°	5956.3	21.2
50°-60°	7038.7	25.1
60°-70°	3751.2	13.4
70°-80°	951.7	3.4
80°-90°	148.4	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°	28079.0	100.0
0°-180°	28079.0	100.0

Coefficient of Utilization



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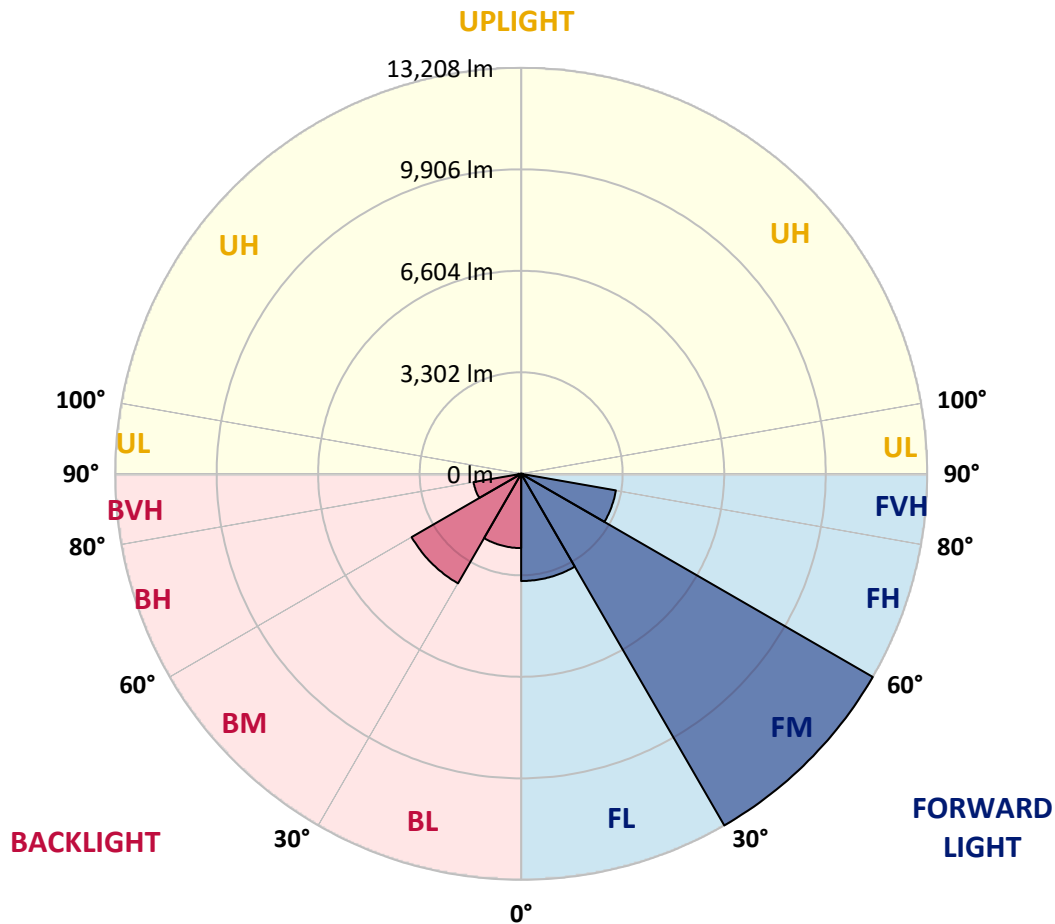
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3488.4	12.4			
FM	(30°-60°)	13207.8	47.0			
FH	(60°-80°)	3129.1	11.1			G2/5000
FVH	(80°-90°)	59.7	0.2			G1/100
BL	(0°-30°)	2416.8	8.6	B3/2500		
BM	(30°-60°)	4114.8	14.7	B3/5000		
BH	(60°-80°)	1573.8	5.6	B3/2500		G3/2500
BVH	(80°-90°)	88.7	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°	53°	55°	65°	75°	85°
0°	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6
2.5°	9174.4	9095.1	9142.0	9123.9	9271.6	9314.9	9293.2	9311.3	9394.1	9354.5	9271.6
5°	8572.8	8684.5	8706.1	8760.1	8846.6	9015.9	9149.2	9185.2	9224.8	9408.5	9390.5
7.5°	8025.3	8101.0	8061.3	8219.8	8407.1	8680.9	8843.0	8871.8	9235.6	9336.5	9412.1
10°	7679.5	7603.9	7784.0	7827.2	8039.7	8353.1	8547.6	8666.5	8997.9	9397.7	9444.5
12.5°	7359.0	7333.7	7441.8	7564.3	7802.0	8126.2	8324.3	8371.1	8882.6	9304.0	9523.8
15°	7121.2	7092.4	7200.5	7290.5	7567.9	7856.0	8108.2	8241.4	8756.5	9250.0	9455.3
17.5°	6933.9	6930.3	6991.5	7153.6	7438.2	7679.5	8086.6	8093.8	8691.7	9332.9	9513.0
20°	6923.1	6919.5	6930.3	7110.4	7369.8	7665.1	8018.1	8083.0	8691.7	9275.2	9516.6
22.5°	7013.2	6955.5	7020.4	7135.6	7322.9	7690.3	8043.3	8187.4	8900.6	9559.8	9678.7
25°	7157.2	7171.6	7207.7	7247.3	7355.3	7748.0	8266.7	8385.5	9145.6	9804.7	9902.0
27.5°	7420.2	7413.0	7427.4	7449.0	7542.7	7802.0	8356.7	8662.9	9657.0	10240.6	10143.3
30°	7805.6	7780.4	7838.0	7913.7	7827.2	7974.9	8655.7	8886.2	10132.5	10680.0	10413.5
32.5°	8155.0	8248.7	8356.7	8389.1	8284.7	8313.5	9051.9	9286.0	10528.7	11220.3	10744.9
35°	8590.8	8666.5	8810.6	8911.4	8893.4	8807.0	9592.2	9902.0	11101.5	11616.6	11094.3
37.5°	9015.9	9105.9	9343.7	9642.6	9476.9	9437.3	10168.5	10424.3	11278.0	11829.1	11350.0
40°	9700.3	9696.7	10107.3	10262.2	10409.9	10341.4	10766.5	10852.9	11371.6	11782.2	11357.2
42.5°	10503.5	10453.1	10870.9	11112.3	11303.2	11310.4	11389.6	11360.8	11414.8	11544.5	11281.6
45°	11267.2	11375.2	11796.7	12228.9	12419.8	12441.4	11915.5	11861.5	11490.5	11476.1	11137.5
47.5°	12200.1	12225.3	12571.1	13140.2	13583.3	13432.0	12596.3	12477.4	11821.9	11933.5	11378.8
50°	12254.1	12441.4	12751.2	13421.2	14782.7	14743.1	13478.8	13255.5	12355.0	12581.9	12052.4
52.5°	11123.1	11079.8	11447.3	12542.3	14692.7	16047.1	14941.2	14408.1	13500.4	13327.5	13143.8
55°	8475.6	8576.4	8900.6	10006.4	12758.4	16065.1	16933.2	16497.3	14725.1	14429.7	14217.2
56°	7434.6	7449.0	7755.2	8763.7	11641.8	15492.3	17311.4	16958.4	15333.8	14883.6	14559.4
57.5°	6163.1	6080.2	6238.7	6789.8	9826.3	14282.1	16897.1	17242.9	16047.1	15373.5	14923.2
60°	4851.9	4833.9	4769.1	4869.9	6209.9	10759.3	14065.9	14844.0	15975.0	14912.4	14292.9
62.5°	3962.2	3872.2	4001.9	4145.9	4315.2	6674.6	9884.0	10341.4	12682.8	11904.7	10737.7
65°	3072.5	3029.3	3191.4	3659.7	3760.5	4239.6	5630.0	5983.0	7488.6	7355.3	6476.5
67.5°	2114.4	2121.6	2262.1	2975.3	3486.8	3443.5	3447.1	3630.8	3908.2	2903.2	2528.6
70°	1340.0	1336.4	1412.0	1916.3	2806.0	2834.8	2690.7	2636.7	2499.8	1512.9	1602.9
72.5°	860.9	835.7	875.3	1059.0	1451.6	1678.5	1729.0	1761.4	1448.0	1188.7	1289.5
75°	486.3	461.1	446.7	493.5	572.7	662.8	727.6	749.2	839.3	900.5	954.5
77.5°	147.7	133.3	162.1	216.1	284.6	381.8	464.7	479.1	565.5	637.6	691.6
80°	64.8	72.0	100.9	144.1	201.7	270.2	327.8	349.4	407.0	461.1	475.5
82.5°	39.6	43.2	68.4	97.3	140.5	190.9	234.1	241.3	299.0	342.2	353.0
85°	14.4	18.0	36.0	57.6	90.1	122.5	122.5	133.3	122.5	122.5	133.3
87.5°	0.0	0.0	3.6	7.2	7.2	10.8	14.4	14.4	18.0	21.6	25.2
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°	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6	9289.6
2.5°	9314.9	9296.8	9268.0	9163.6	9152.8	9120.3	8940.2	8911.4	8940.2	8853.8	8861.0
5°	9296.8	9350.9	9134.8	9030.3	8835.8	8695.3	8533.2	8450.4	8302.7	8209.0	8313.5
7.5°	9376.1	9354.5	9084.3	8857.4	8565.6	8209.0	7924.5	7762.4	7503.0	7431.0	7485.0
10°	9347.3	9232.0	8915.0	8616.1	8064.9	7751.6	7290.5	6843.9	6598.9	6472.9	6454.8
12.5°	9307.6	9275.2	8745.7	8230.6	7650.7	6991.5	6343.2	5921.7	5521.9	5349.0	5374.2
15°	9354.5	9080.7	8428.8	7776.8	7006.0	6141.5	5442.7	4898.8	4621.4	4509.7	4509.7
17.5°	9332.9	8987.1	8277.5	7268.9	6292.7	5269.8	4502.5	4174.8	4059.5	4059.5	4091.9
20°	9343.7	9048.3	7971.3	6761.0	5449.9	4437.7	3879.4	3760.5	3810.9	3829.0	3847.0
22.5°	9404.9	8846.6	7672.3	6202.7	4668.2	3796.5	3522.8	3526.4	3616.4	3713.7	3695.7
25°	9480.5	8767.3	7308.5	5648.0	4070.3	3483.2	3396.7	3385.9	3454.3	3504.8	3512.0
27.5°	9415.7	8630.5	6937.5	4956.4	3580.4	3274.2	3256.2	3263.4	3285.1	3385.9	3353.5
30°	9628.2	8670.1	6472.9	4376.5	3310.3	3205.8	3184.2	3173.4	3205.8	3234.6	3209.4
32.5°	9891.2	8529.6	6127.1	3818.2	3177.0	3155.4	3112.2	3097.7	3115.8	3086.9	3101.3
35°	10006.4	8504.4	5676.8	3418.3	3072.5	3054.5	3029.3	3025.7	3029.3	3004.1	2982.5
37.5°	10071.3	8623.3	5161.7	3234.6	3007.7	3025.7	2968.1	2960.9	2896.0	2910.4	2921.2
40°	10182.9	8439.6	4743.9	3058.1	2968.1	2932.1	2881.6	2870.8	2827.6	2802.4	2827.6
42.5°	10020.9	8385.5	4333.2	2982.5	2910.4	2870.8	2834.8	2773.6	2759.2	2737.5	2723.1
45°	9891.2	8075.8	3965.8	2888.8	2842.0	2820.4	2752.0	2687.1	2633.1	2654.7	2622.3
47.5°	9988.4	7967.7	3602.0	2809.6	2748.4	2723.1	2654.7	2604.3	2550.2	2525.0	2517.8
50°	10377.5	8169.4	3295.9	2752.0	2669.1	2654.7	2564.6	2507.0	2456.6	2438.6	2445.8
52.5°	11306.8	8720.5	3086.9	2633.1	2593.5	2528.6	2478.2	2406.2	2373.7	2316.1	2352.1
55°	12484.6	9617.4	3032.9	2521.4	2499.8	2442.2	2373.7	2319.7	2258.5	2211.6	2200.8
56°	12862.9	10046.1	2989.7	2478.2	2442.2	2409.8	2319.7	2287.3	2190.0	2179.2	2172.0
57.5°	13169.0	10424.3	2996.9	2395.4	2359.3	2330.5	2276.5	2197.2	2132.4	2092.8	2110.8
60°	12477.4	9757.9	2860.0	2269.3	2262.1	2208.0	2132.4	2096.4	2017.1	1970.3	1959.5
62.5°	9275.2	6624.1	2319.7	2107.2	2103.6	2046.0	1959.5	1919.9	1905.5	1840.6	1840.6
65°	5341.8	4153.1	2006.3	1973.9	1945.1	1887.5	1801.0	1768.6	1732.6	1711.0	1693.0
67.5°	2280.1	2154.0	1822.6	1819.0	1786.6	1714.6	1628.1	1577.7	1530.9	1487.6	1509.3
70°	1653.3	1678.5	1646.1	1628.1	1588.5	1498.4	1422.8	1361.6	1289.5	1260.7	1282.3
72.5°	1311.1	1365.2	1412.0	1415.6	1368.8	1264.3	1181.5	1098.6	1019.4	979.8	997.8
75°	994.2	1030.2	1077.0	1087.8	1019.4	947.3	868.1	781.6	720.4	673.6	680.8
77.5°	716.8	709.6	752.8	745.6	713.2	662.8	590.7	511.5	443.0	399.8	403.4
80°	489.9	500.7	525.9	522.3	482.7	450.3	396.2	331.4	281.0	244.9	237.7
82.5°	342.2	360.2	381.8	363.8	331.4	299.0	259.3	212.5	172.9	144.1	136.9
85°	122.5	140.5	162.1	172.9	183.7	176.5	147.7	118.9	86.4	72.0	68.4
87.5°	25.2	28.8	32.4	32.4	32.4	28.8	25.2	25.2	21.6	10.8	10.8
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)