

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: P532430

Luminaire Tested: **GALN-SA7D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42794 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

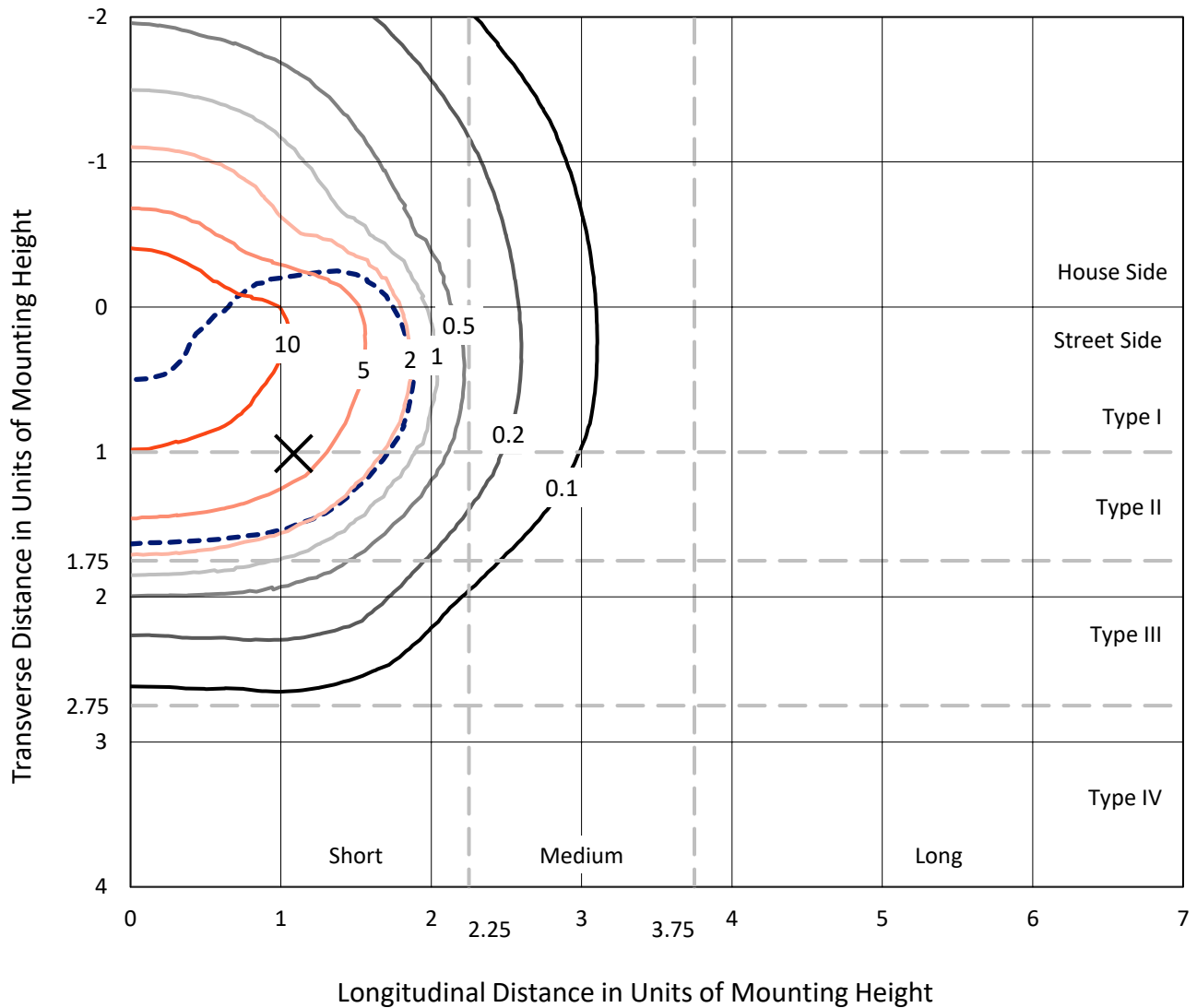
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

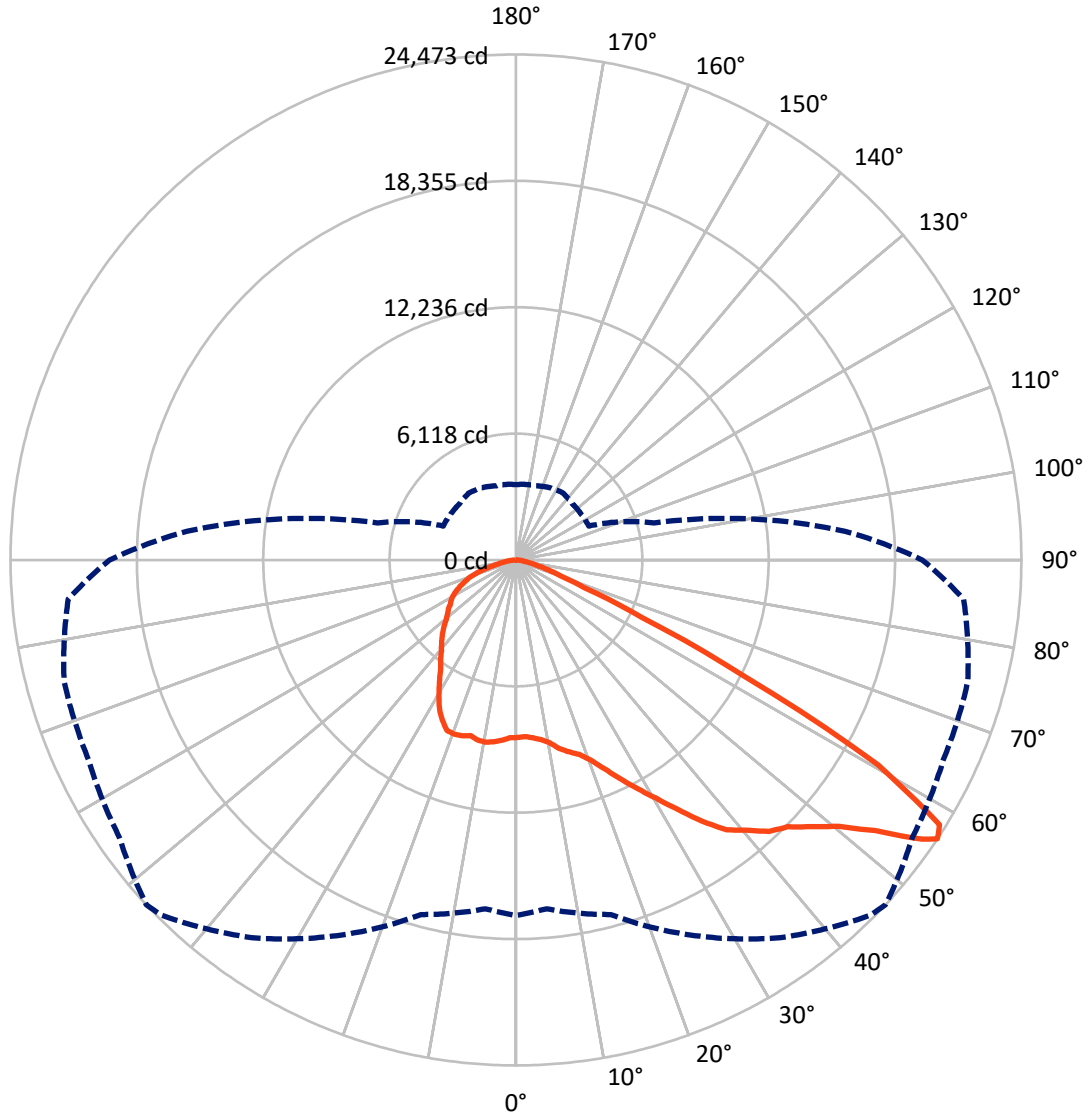
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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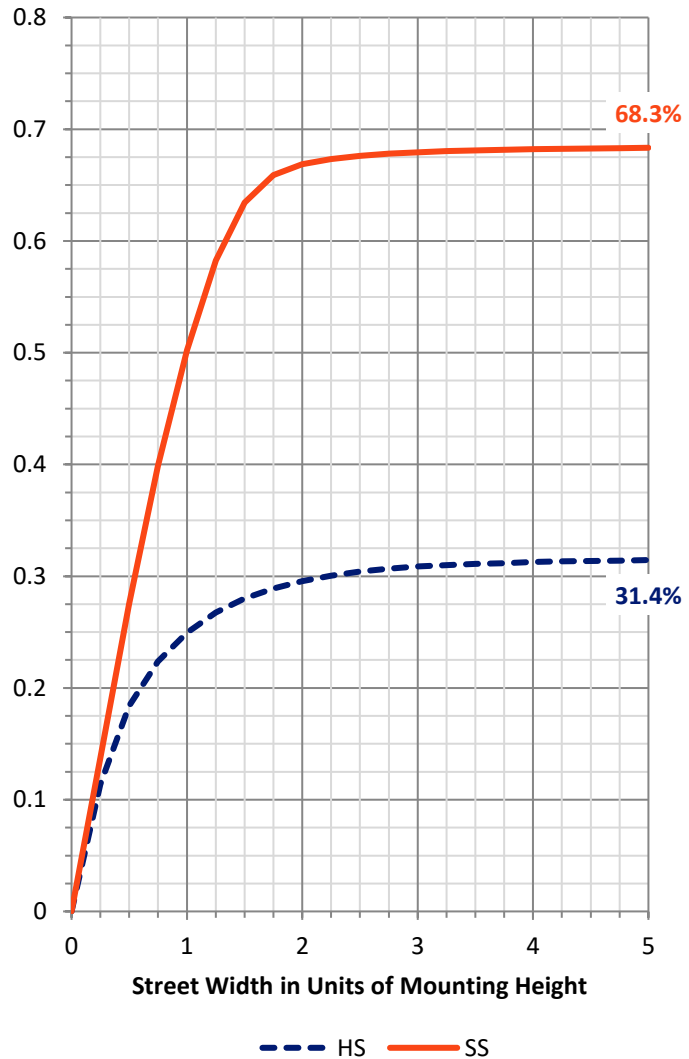
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13560.9	0.0	13560.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	29233.1	0.0	29233.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	42794.0	0.0	42794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.6	2.0
10°-20°	2642.1	6.2
20°-30°	4670.6	10.9
30°-40°	7015.1	16.4
40°-50°	9627.5	22.5
50°-60°	11469.9	26.8
60°-70°	4908.4	11.5
70°-80°	1389.1	3.2
80°-90°	233.8	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°	42794.0	100.0
0°-180°	42794.0	100.0

Coefficient of Utilization



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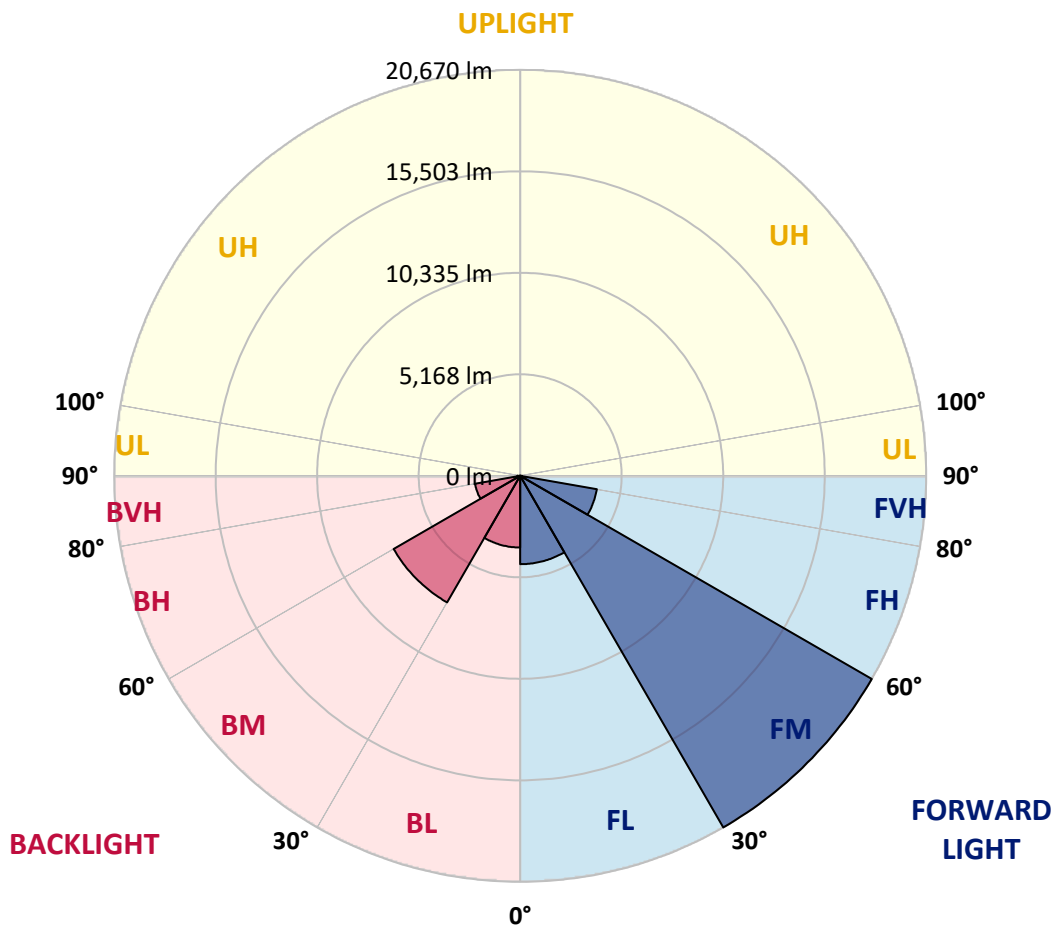
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4499.1	10.5			
FM (30°-60°)	20670.5	48.3			
FH (60°-80°)	3964.3	9.3			G2/5000
FVH (80°-90°)	99.2	0.2			G1/100
BL (0°-30°)	3651.2	8.5	B4/5000		
BM (30°-60°)	7442.0	17.4	B4/8500		
BH (60°-80°)	2333.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	134.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0
2.5°	8563.3	8546.9	8536.0	8623.3	8590.6	8596.0	8563.3	8596.0	8617.8	8568.7	8639.7
5°	8546.9	8596.0	8552.4	8579.6	8650.6	8628.8	8650.6	8716.1	8699.7	8683.3	8661.5
7.5°	8699.7	8705.2	8737.9	8748.8	8770.7	8748.8	8781.6	8841.6	8825.2	8732.5	8743.4
10°	8918.0	8928.9	8934.4	8994.4	9032.6	9038.1	8999.9	8945.3	8939.9	9065.4	8978.1
12.5°	9169.1	9141.8	9207.3	9229.1	9272.8	9321.9	9371.0	9256.4	9327.4	9332.8	9229.1
15°	9534.8	9562.0	9485.6	9485.6	9502.0	9507.5	9643.9	9589.3	9578.4	9518.4	9562.0
17.5°	10080.5	9895.0	9889.5	9813.1	9802.2	9845.8	9895.0	9938.6	10086.0	9965.9	9731.2
20°	10479.0	10522.6	10364.3	10271.6	10287.9	10386.2	10337.0	10533.5	10637.2	10440.7	10211.5
22.5°	11183.0	11035.6	11073.8	10866.5	10882.8	10986.5	10981.1	11183.0	11243.0	10931.9	10599.0
25°	11657.8	11619.6	11652.4	11488.6	11510.5	11592.3	11723.3	12056.3	11958.0	11614.2	10844.6
27.5°	12351.0	12274.6	12247.3	12187.2	12165.4	12383.7	12536.5	12891.3	12820.3	12318.2	11281.2
30°	13060.5	13011.4	13038.7	12793.1	12880.4	13344.3	13388.0	13873.7	13840.9	12956.8	11767.0
32.5°	13551.7	13579.0	13628.1	13491.6	13879.2	14250.3	14397.6	14948.9	14976.2	14053.8	12705.7
35°	14343.1	14250.3	14277.6	14435.8	14616.0	15292.7	15532.9	15898.5	16127.8	15205.4	13606.3
37.5°	14839.7	14938.0	14823.3	15074.4	15543.8	16357.0	16575.3	16951.9	17192.0	16340.6	14834.3
40°	15614.7	15456.5	15538.3	15718.4	16198.7	17257.5	17197.5	17585.0	17661.4	17306.6	15980.4
42.5°	16449.8	16373.4	16258.7	16668.1	17072.0	17841.5	17961.6	17781.5	18169.0	18250.8	17617.7
45°	17448.5	17541.3	17557.7	17568.6	17923.4	18594.7	18430.9	18272.7	18720.2	19315.1	18632.9
47.5°	18376.4	18081.6	18294.5	18589.2	19091.3	19096.8	19287.8	18911.2	19386.1	19915.5	19549.8
50°	18687.5	18545.6	18829.4	19386.1	20161.1	20242.9	20264.8	19729.9	19975.5	20395.7	19866.3
52.5°	18567.4	18518.3	19244.2	20106.5	21241.7	21656.5	21765.7	21105.3	21241.7	21050.7	20564.9
55°	17994.3	18141.7	18873.0	20630.4	22371.5	23654.0	23861.4	23026.4	22158.6	22306.0	21771.1
56°	17208.4	16951.9	17770.6	20035.5	22322.3	24303.5	24472.7	23430.3	22840.8	22649.8	21760.2
57.5°	14599.6	14266.7	15341.8	18027.1	21083.4	24057.9	24183.5	23599.5	22726.2	22338.7	20172.0
60°	8546.9	8710.6	10075.1	12432.8	16264.2	19724.4	20144.7	20570.4	19986.4	18250.8	15014.4
62.5°	4126.1	4022.4	4999.3	7127.9	9911.3	12591.1	12465.6	13660.8	14315.8	12967.7	9480.2
65°	2161.3	2150.4	2728.9	3891.4	5446.9	6614.8	6729.5	7373.5	8274.0	6680.3	4813.8
67.5°	1588.2	1631.9	1921.1	2734.4	3503.9	3574.9	3558.5	3880.5	3967.8	3356.5	2958.1
70°	1244.4	1266.2	1479.1	2079.4	2608.8	2335.9	2286.8	2325.0	2581.5	2690.7	2559.7
72.5°	900.5	922.4	1102.5	1402.7	1631.9	1593.7	1626.4	1839.3	2155.8	2270.4	2134.0
75°	600.4	616.7	715.0	856.9	966.0	1042.4	1102.5	1348.1	1642.8	1708.3	1642.8
77.5°	414.8	431.2	496.7	605.8	616.7	665.9	687.7	802.3	982.4	1064.3	1020.6
80°	234.7	234.7	267.4	311.1	382.0	447.5	458.5	551.2	633.1	687.7	698.6
82.5°	109.2	114.6	141.9	191.0	251.1	311.1	322.0	382.0	442.1	496.7	513.0
85°	54.6	60.0	81.9	114.6	152.8	185.6	180.1	185.6	196.5	185.6	191.0
87.5°	16.4	16.4	21.8	27.3	21.8	27.3	27.3	32.7	38.2	43.7	49.1
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°	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0	8596.0
2.5°	8645.1	8661.5	8552.4	8656.1	8617.8	8612.4	8688.8	8677.9	8705.2	8694.3	8628.8
5°	8650.6	8612.4	8727.0	8623.3	8672.4	8776.1	8705.2	8868.9	8787.0	8841.6	8721.5
7.5°	8819.8	8830.7	8808.9	8852.5	8830.7	8879.8	8841.6	8879.8	8814.3	8819.8	8928.9
10°	8967.1	8934.4	8972.6	8918.0	8956.2	8939.9	8852.5	8825.2	8847.1	8819.8	8890.7
12.5°	9240.0	9180.0	9152.7	9087.2	9043.6	8879.8	8743.4	8667.0	8770.7	8787.0	8754.3
15°	9518.4	9523.8	9398.3	9250.9	8978.1	8732.5	8765.2	8792.5	8792.5	8836.2	8754.3
17.5°	9693.0	9693.0	9578.4	9283.7	9005.3	8863.4	8830.7	8743.4	8667.0	8656.1	8650.6
20°	9998.7	9905.9	9643.9	9278.2	8994.4	8928.9	8683.3	8475.9	8317.7	8263.1	8257.6
22.5°	10348.0	10113.3	9747.6	9289.2	8978.1	8885.3	8426.8	8115.7	7831.9	7711.9	7728.2
25°	10670.0	10293.4	9807.6	9240.0	8918.0	8470.5	7957.5	7526.3	7231.6	7133.3	7084.2
27.5°	10893.7	10484.4	9807.6	9283.7	8694.3	8006.6	7482.6	6931.4	6674.9	6609.4	6620.3
30°	11193.9	10724.6	9976.8	9190.9	8246.7	7406.2	6778.6	6418.4	6265.5	6211.0	6249.2
32.5°	11898.0	11352.2	10211.5	8967.1	7717.3	6805.9	6298.3	6096.3	5872.6	5763.4	5725.2
35°	12662.1	11947.1	10440.7	8590.6	7122.4	6260.1	5943.5	5758.0	5490.5	5370.5	5392.3
37.5°	13742.7	12711.2	10457.1	7968.4	6478.4	5954.4	5665.2	5375.9	5157.6	4972.0	4917.5
40°	15199.9	13753.6	10418.9	7313.4	5959.9	5594.2	5381.4	5021.2	4775.6	4644.6	4671.9
42.5°	16482.5	14976.2	10260.6	6571.2	5490.5	5348.6	5108.5	4753.7	4513.6	4377.1	4366.2
45°	17563.2	15876.7	9960.5	5938.1	5097.6	5075.7	4797.4	4524.5	4333.5	4208.0	4262.5
47.5°	18561.9	16602.6	9507.5	5305.0	4737.4	4781.0	4513.6	4344.4	4224.3	4109.7	4104.3
50°	18922.1	16591.7	9109.0	4781.0	4448.1	4426.3	4415.3	4235.2	4109.7	4011.5	4055.1
52.5°	19522.5	16777.2	8677.9	4420.8	4186.1	4191.6	4229.8	4098.8	3956.9	3896.9	3951.4
55°	20384.8	16804.5	7728.2	4000.6	3967.8	4006.0	4006.0	3918.7	3798.6	3749.5	3722.2
56°	19680.8	15991.3	6931.4	3891.4	3858.7	3858.7	3962.4	3864.1	3716.8	3678.5	3645.8
57.5°	18152.6	14010.1	5801.6	3760.4	3711.3	3787.7	3842.3	3738.6	3602.1	3547.6	3580.3
60°	12520.2	9480.2	4360.8	3476.6	3476.6	3602.1	3645.8	3493.0	3432.9	3427.5	3383.8
62.5°	7308.0	5523.3	3411.1	3220.1	3231.0	3334.7	3367.5	3280.1	3203.7	3296.5	3340.2
65°	3875.0	3296.5	2925.4	2947.2	2952.7	3034.5	3176.4	3171.0	3165.5	3192.8	3198.3
67.5°	2805.3	2739.8	2657.9	2636.1	2647.0	2707.1	2849.0	2958.1	2952.7	2887.2	2838.0
70°	2499.7	2406.9	2357.8	2363.2	2319.6	2390.5	2505.1	2576.1	2450.5	2374.1	2341.4
72.5°	2079.4	2052.1	2019.4	2024.8	1937.5	1921.1	1790.2	1790.2	1757.4	1735.6	1773.8
75°	1588.2	1577.3	1593.7	1566.4	1473.6	1375.4	1299.0	1228.0	1118.8	1075.2	1053.4
77.5°	1004.2	1037.0	1075.2	1015.1	976.9	906.0	829.6	758.6	671.3	622.2	622.2
80°	682.2	709.5	736.8	725.9	682.2	616.7	556.7	480.3	420.2	382.0	376.6
82.5°	518.5	540.3	578.5	534.9	491.2	436.6	387.5	332.9	278.3	234.7	234.7
85°	185.6	212.9	234.7	256.5	272.9	278.3	240.1	196.5	158.3	125.5	120.1
87.5°	49.1	54.6	60.0	54.6	54.6	54.6	60.0	54.6	49.1	38.2	38.2
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)