

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: P647086

Luminaire Tested: **GALN-SA7C-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27737 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

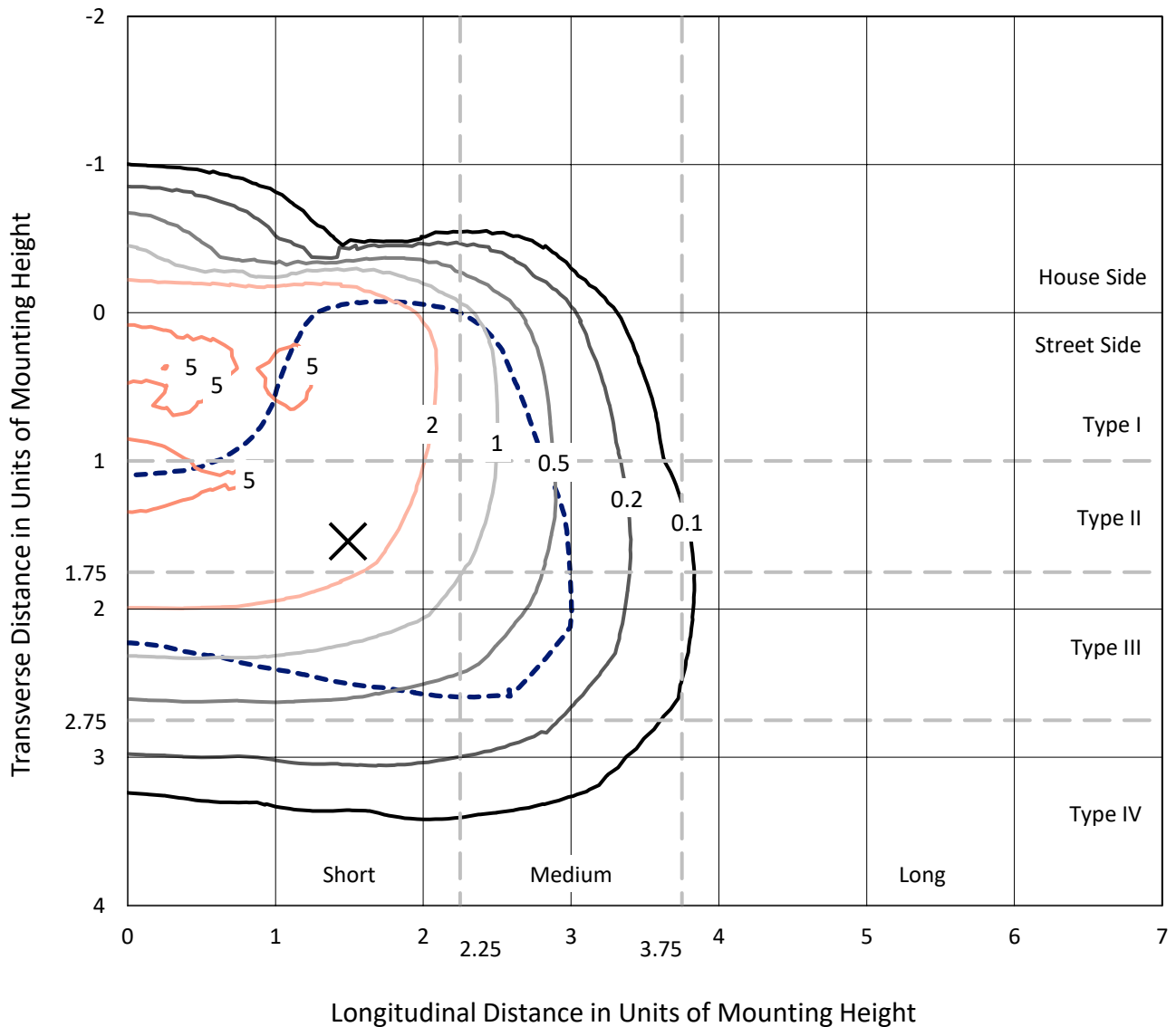
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

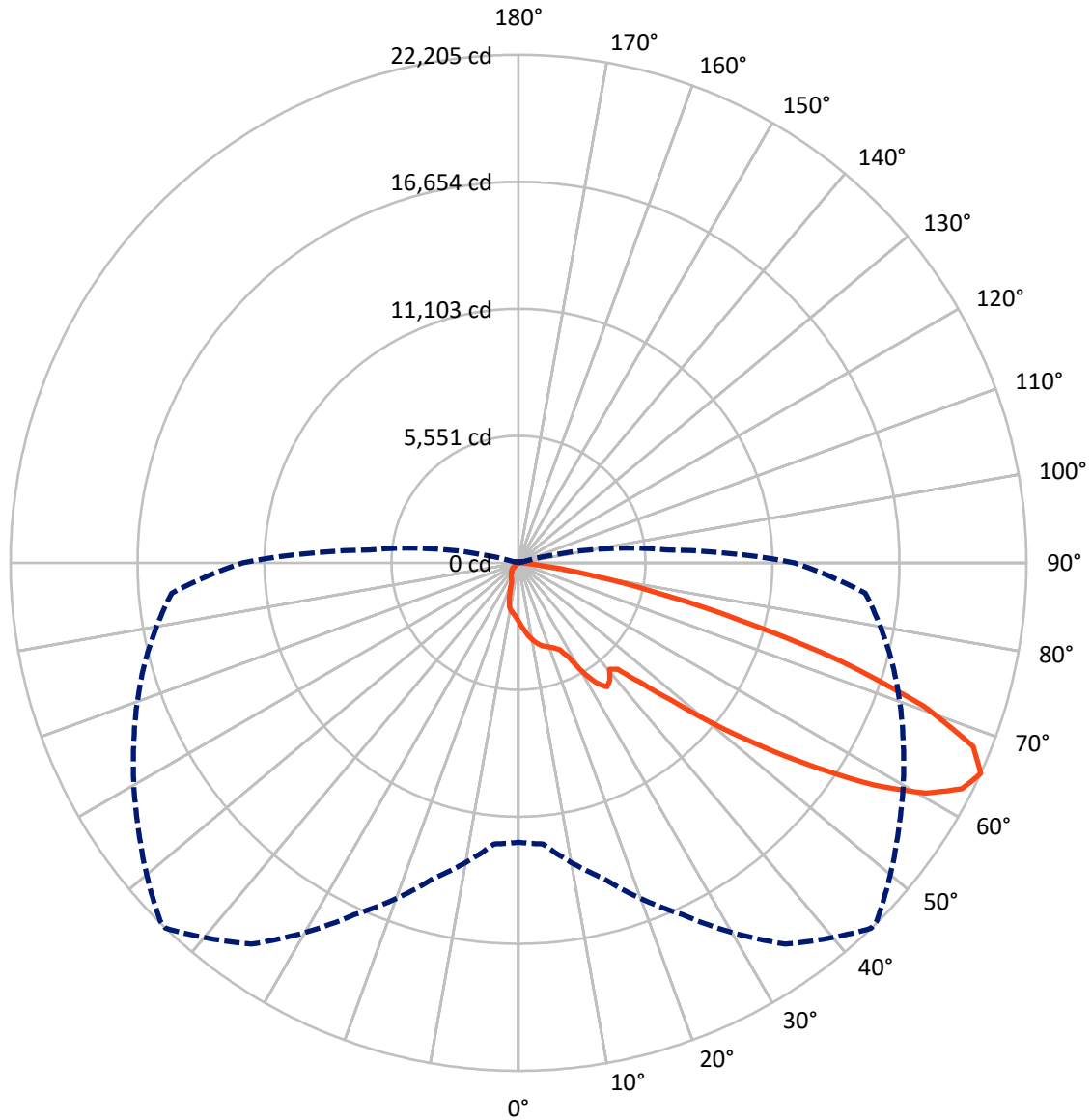
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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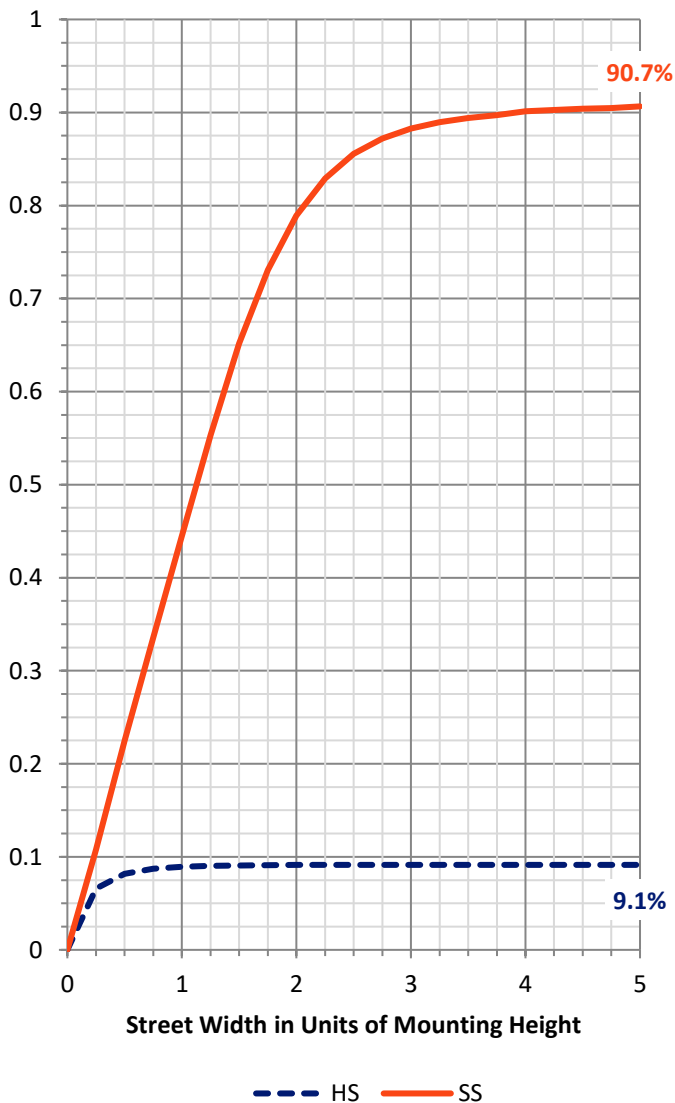
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2555.5	0.0	2555.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	25181.5	0.0	25181.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	27737.0	0.0	27737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	0.9
10°-20°	772.7	2.8
20°-30°	1310.3	4.7
30°-40°	2178.6	7.9
40°-50°	3803.9	13.7
50°-60°	7431.5	26.8
60°-70°	8622.2	31.1
70°-80°	3139.8	11.3
80°-90°	221.2	0.8
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°	27737.0	100.0
0°-180°	27737.0	100.0

Coefficient of Utilization

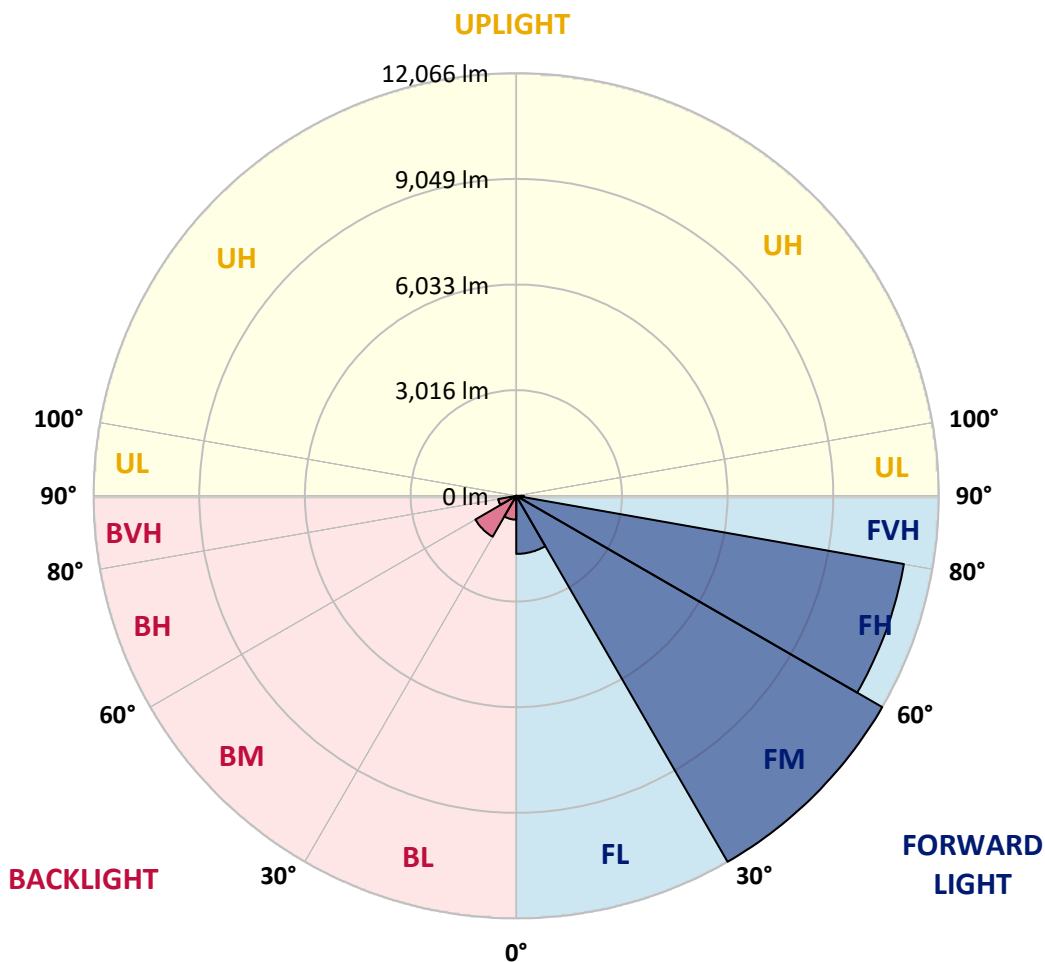


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.9	6.0			
FM (30°-60°)	12065.6	43.5			
FH (60°-80°)	11238.7	40.5			G4/12000
FVH (80°-90°)	218.2	0.8			G2/225
BL (0°-30°)	680.9	2.5	B2/1000		
BM (30°-60°)	1348.3	4.9	B2/2500		
BH (60°-80°)	523.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5
2.5°	2905.8	2893.0	2886.7	2852.8	2827.3	2795.5	2795.5	2755.3	2708.6	2657.8	2611.1
5°	3230.0	3208.8	3181.3	3151.7	3092.3	3007.5	3007.5	2922.7	2825.2	2738.3	2642.9
7.5°	3541.6	3522.6	3475.9	3418.7	3321.2	3232.1	3225.8	3102.9	2986.3	2854.9	2719.3
10°	3815.0	3800.1	3759.9	3649.7	3547.9	3431.4	3429.2	3291.5	3155.9	2994.7	2827.3
12.5°	4005.7	4007.9	3954.9	3848.9	3717.5	3607.3	3598.8	3463.2	3321.2	3147.3	2941.8
15°	4141.4	4141.4	4086.3	3967.6	3848.9	3751.4	3743.0	3624.3	3478.0	3289.4	3066.9
17.5°	4179.6	4192.3	4132.9	4027.0	3931.6	3846.8	3844.7	3745.1	3628.5	3446.2	3194.0
20°	4164.7	4177.5	4130.8	4048.1	3982.4	3933.7	3927.4	3887.0	3779.0	3607.3	3329.6
22.5°	4132.9	4145.7	4111.7	4063.0	4031.2	4046.0	4035.4	4069.3	4012.1	3804.4	3490.7
25°	4139.3	4152.0	4126.6	4099.0	4126.6	4217.7	4245.3	4391.5	4340.6	4054.5	3664.5
27.5°	4338.5	4364.0	4327.9	4340.6	4438.1	4650.1	4703.1	4955.3	4730.6	4372.4	3935.8
30°	4781.5	4764.6	4696.7	4758.1	5097.3	5546.6	5531.7	5491.5	5139.7	4739.1	4258.0
32.5°	5184.2	5169.4	5165.1	5430.0	6044.7	6263.0	6252.3	5862.4	5506.3	5158.7	4575.9
35°	5347.3	5290.1	5277.4	5919.6	6947.6	6659.3	6593.6	6015.0	5951.4	5616.5	4900.2
37.5°	5839.1	5798.8	5601.7	6000.1	6587.2	6491.9	6441.0	6277.8	6426.2	6021.3	5266.8
40°	6852.2	6739.8	6561.8	6171.8	6076.5	6116.7	6167.6	6614.8	6987.8	6574.5	5756.4
42.5°	8111.1	8085.7	7755.1	7028.1	6313.8	6368.9	6434.6	7318.5	7795.3	7407.5	6555.4
45°	9622.3	9658.3	9181.5	8323.1	7386.3	7432.9	7528.3	8357.0	8888.9	8702.4	7812.3
47.5°	10995.7	10968.1	10807.0	9914.7	9050.1	8946.2	9100.9	9690.1	10402.2	10431.9	9372.2
50°	12377.6	12523.9	12284.3	11934.6	11292.4	11074.1	11016.9	11305.1	12390.3	12248.3	11245.8
52.5°	14363.5	14439.8	13990.5	13901.5	14047.7	13339.8	13282.6	13352.5	14323.3	13835.8	12648.9
55°	15611.8	15567.4	15399.9	16095.1	16673.7	15789.9	15717.8	15435.9	15927.6	14956.9	13998.9
57.5°	16006.1	16069.7	16459.6	17716.5	19085.6	18335.4	18204.0	17402.8	17084.9	16001.9	15240.9
60°	15830.1	15946.7	16788.1	18657.5	20556.5	20444.2	20331.8	18986.0	17915.7	16875.1	16112.0
62.5°	14577.6	14740.8	16086.6	18490.1	21054.6	21756.1	21616.3	19973.7	18468.9	17298.9	16264.6
65°	12216.5	12337.3	14270.3	16970.4	20346.7	22205.4	22154.6	20283.1	18555.8	16911.1	15219.7
67.5°	8708.8	9120.0	10910.9	14302.0	18252.7	21438.2	21525.1	19912.2	17739.8	15234.6	12604.3
70°	5474.5	5754.3	7038.7	10239.1	14632.6	18808.0	19094.1	18214.5	15395.7	11875.3	8437.5
72.5°	2611.1	2818.9	3734.4	6481.3	10328.1	14798.0	15024.8	14952.7	11905.0	7481.6	4353.3
75°	1163.5	1242.0	1782.4	3308.5	6667.8	9946.5	10533.6	10631.2	7439.3	3660.3	1693.5
77.5°	593.4	595.5	835.1	1602.3	3329.6	5934.4	6051.0	6392.3	4033.3	1612.9	589.2
80°	315.8	337.0	442.9	756.6	1727.4	2922.7	2907.9	3196.1	1788.8	790.5	197.1
82.5°	142.0	156.8	250.1	396.4	843.5	1108.5	1195.4	1307.7	767.3	504.4	86.9
85°	42.4	50.9	122.9	199.2	305.2	320.0	358.2	462.0	434.5	358.2	44.5
87.5°	6.3	6.3	50.9	55.1	44.5	57.2	59.4	65.7	139.9	131.4	23.3
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°	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5	2581.5
2.5°	2585.7	2570.9	2517.9	2473.4	2435.2	2412.0	2384.4	2367.4	2358.9	2352.6	2354.7
5°	2596.3	2560.3	2469.2	2397.1	2342.0	2282.7	2242.4	2219.1	2208.5	2191.5	2191.5
7.5°	2655.7	2598.5	2471.3	2361.1	2265.7	2185.1	2108.9	2081.3	2062.2	2058.0	2053.7
10°	2740.4	2668.4	2494.6	2342.0	2206.3	2096.2	1988.0	1892.7	1818.5	1774.0	1767.6
12.5°	2846.4	2742.5	2530.7	2329.3	2155.4	1960.5	1674.4	1481.5	1352.2	1311.9	1318.3
15°	2943.9	2831.6	2566.7	2318.7	2062.2	1625.6	1301.3	1080.9	1015.2	1008.9	1011.0
17.5°	3060.5	2926.9	2609.0	2303.8	1805.8	1242.0	966.5	907.1	919.9	941.0	938.9
20°	3181.3	3028.7	2659.9	2214.8	1441.2	934.7	854.2	860.5	879.5	898.6	902.9
22.5°	3310.6	3145.2	2719.3	2000.7	1100.0	813.9	809.6	818.1	837.2	858.4	862.6
25°	3488.6	3291.5	2763.8	1721.0	833.0	752.4	760.9	775.7	792.7	816.0	820.2
27.5°	3717.5	3488.6	2787.1	1356.5	720.6	697.3	699.5	720.6	741.8	763.0	763.0
30°	4014.2	3723.9	2740.4	1025.8	665.5	644.3	635.8	648.6	676.1	697.3	699.5
32.5°	4279.2	3946.4	2617.5	784.2	625.2	595.5	574.4	576.5	587.1	599.8	601.9
35°	4544.1	4162.6	2407.7	659.1	582.9	549.0	517.2	500.2	491.7	485.4	491.7
37.5°	4883.2	4431.8	2128.0	599.8	546.8	504.4	459.9	423.9	394.2	375.1	379.4
40°	5319.8	4804.8	1797.3	561.6	512.9	462.0	402.7	356.0	305.2	288.2	279.8
42.5°	6040.5	5370.7	1449.7	529.9	479.0	417.5	343.3	279.8	233.2	216.2	220.4
45°	7178.5	6084.9	1116.9	496.0	445.1	368.8	288.2	220.4	182.3	173.8	178.1
47.5°	8687.6	7009.0	860.5	457.8	402.7	315.8	226.8	173.8	150.5	148.4	146.3
50°	10107.7	7869.5	718.5	415.4	351.8	262.8	186.5	146.3	131.4	129.3	129.3
52.5°	11392.0	8486.2	585.0	366.7	296.8	216.2	156.8	129.3	116.6	110.2	110.2
55°	12534.4	8888.9	474.7	307.3	233.2	171.7	135.6	116.6	101.7	93.3	91.1
57.5°	13397.1	8937.7	356.0	245.9	173.8	133.5	116.6	101.7	84.8	74.2	69.9
60°	13765.8	8515.9	262.8	186.5	129.3	105.9	93.3	82.7	63.6	53.0	50.9
62.5°	13394.9	7695.7	195.0	142.0	99.6	78.5	65.7	61.5	44.5	31.8	29.7
65°	12066.0	6511.0	154.7	108.1	74.2	57.2	42.4	40.2	27.6	14.8	12.7
67.5°	9666.8	5099.4	122.9	80.6	53.0	38.1	27.6	25.4	14.8	4.2	4.2
70°	6286.3	3259.7	99.6	59.4	33.9	25.4	17.0	12.7	8.5	2.1	0.0
72.5°	3109.2	1523.9	80.6	46.7	23.3	12.7	6.3	4.2	6.3	0.0	0.0
75°	1206.0	542.5	59.4	31.8	12.7	6.3	4.2	0.0	2.1	0.0	0.0
77.5°	400.6	180.2	36.0	17.0	8.5	4.2	0.0	0.0	0.0	0.0	0.0
80°	148.4	69.9	19.1	10.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	59.4	27.6	12.7	8.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.7	17.0	8.5	6.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	12.7	8.5	6.3	4.2	2.1	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)