

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: P650907

Luminaire Tested: **GALN-SA5C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24356.2 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

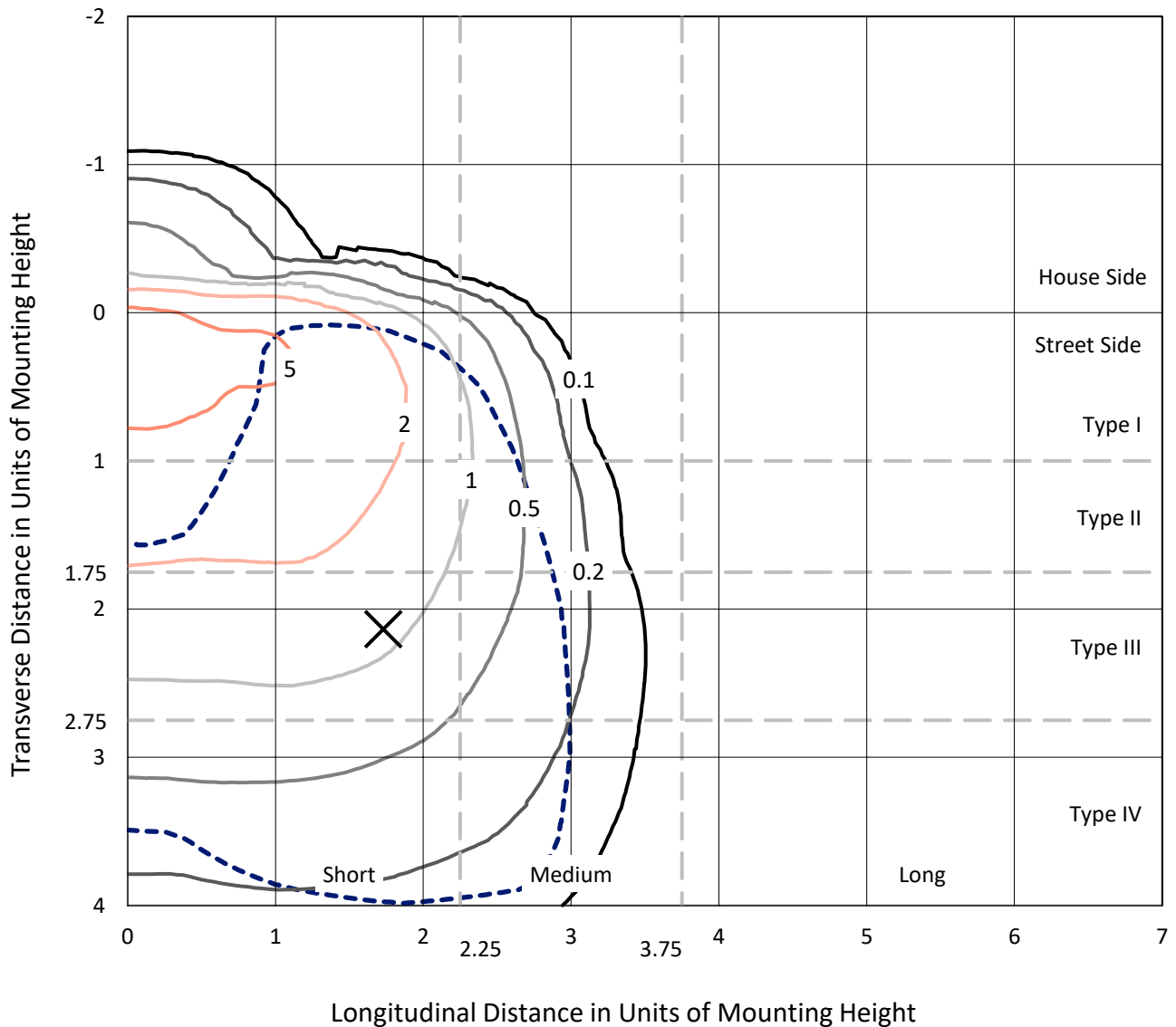
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

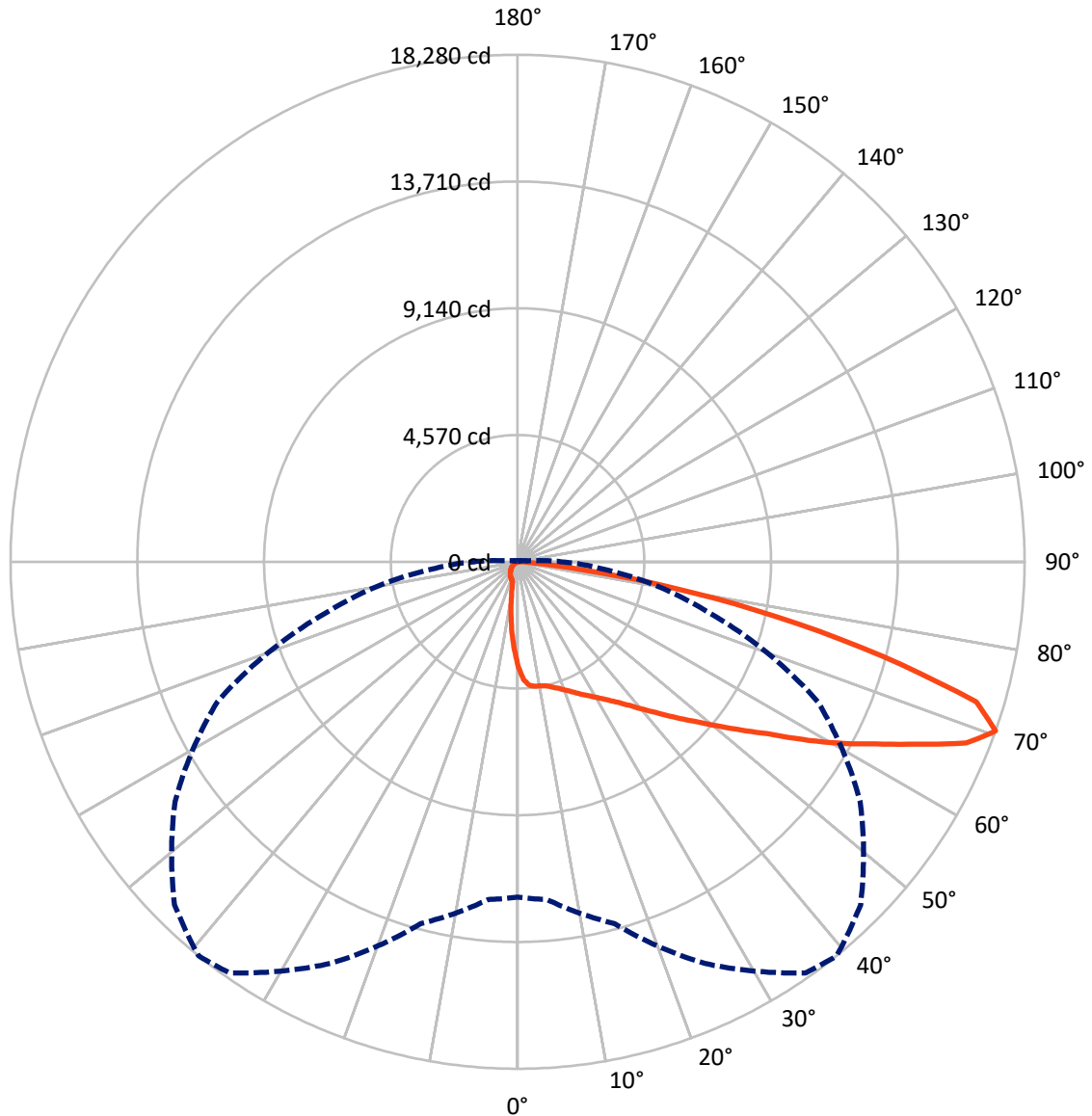
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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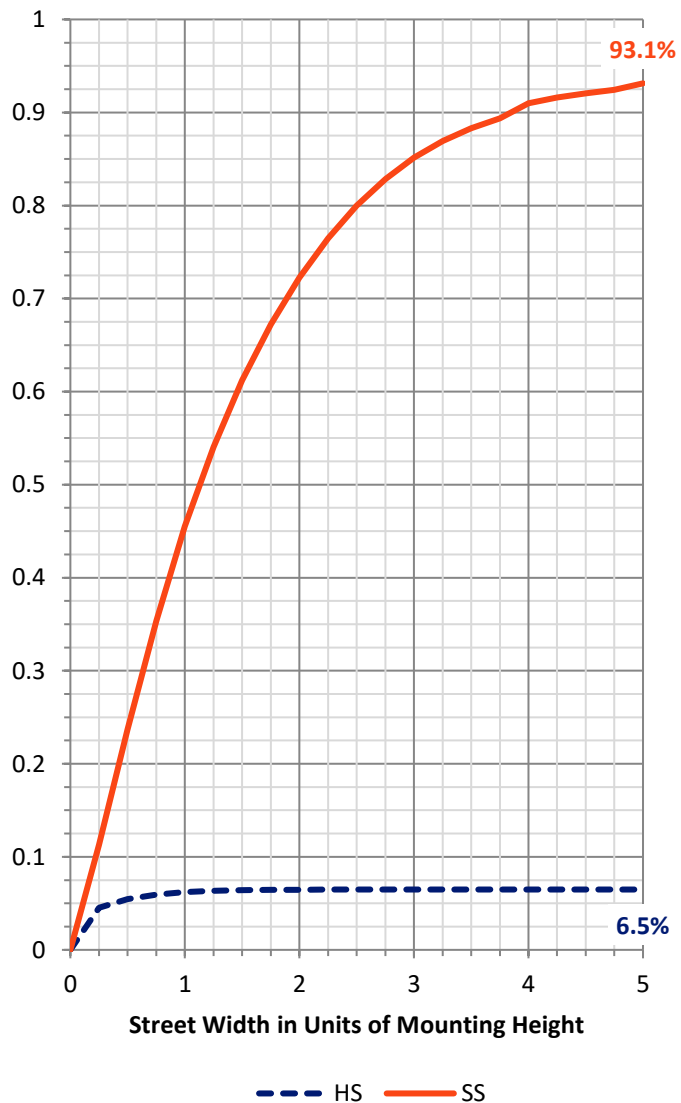
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1588.1	0.0	1588.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	22768.1	0.0	22768.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	24356.2	0.0	24356.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	1.3
10°-20°	842.4	3.5
20°-30°	1411.2	5.8
30°-40°	2188.6	9.0
40°-50°	3468.3	14.2
50°-60°	5084.0	20.9
60°-70°	6516.4	26.8
70°-80°	4094.7	16.8
80°-90°	426.6	1.8
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°	24356.2	100.0
0°-180°	24356.2	100.0

Coefficient of Utilization



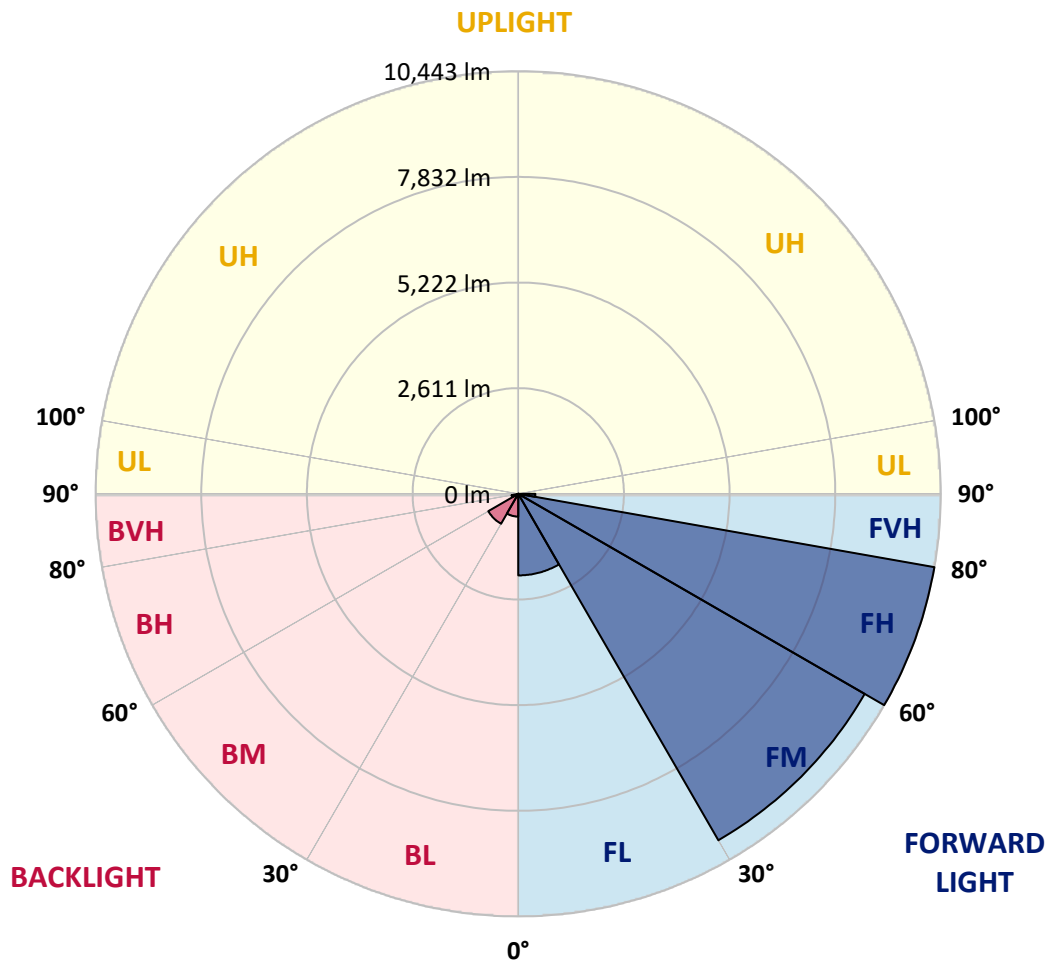
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2015.4	8.3			
FM (30°-60°)	9886.1	40.6			
FH (60°-80°)	10443.1	42.9			G4/12000
FVH (80°-90°)	423.4	1.7			G3/500
BL (0°-30°)	562.3	2.3	B2/1000		
BM (30°-60°)	854.7	3.5	B1/1000		
BH (60°-80°)	168.0	0.7	B1/500		G1/500
BVH (80°-90°)	3.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4
2.5°	4391.3	4376.5	4356.9	4333.9	4268.5	4257.1	4217.8	4134.3	4034.4	3952.6	3839.7
5°	4599.1	4607.3	4592.5	4551.7	4504.1	4476.4	4427.3	4297.9	4168.7	4003.3	3818.4
7.5°	4646.6	4662.9	4644.9	4605.7	4559.8	4530.4	4491.1	4379.8	4229.2	4041.0	3787.3
10°	4641.6	4661.3	4649.8	4613.8	4576.2	4548.4	4505.8	4417.4	4296.3	4098.3	3797.1
12.5°	4633.5	4659.6	4658.0	4640.0	4608.9	4587.7	4561.5	4482.9	4370.0	4181.8	3851.1
15°	4610.5	4643.3	4672.8	4687.5	4689.2	4689.2	4656.4	4572.9	4464.9	4291.4	3921.5
17.5°	4620.4	4658.0	4731.7	4774.3	4803.7	4800.4	4766.0	4676.0	4556.5	4404.3	3995.2
20°	4680.9	4731.7	4834.8	4919.9	4949.4	4939.5	4893.7	4789.0	4653.1	4500.9	4067.2
22.5°	4829.9	4875.7	5005.0	5104.9	5126.1	5099.9	5034.5	4892.1	4769.3	4605.7	4154.0
25°	5052.5	5106.5	5226.0	5301.2	5301.2	5286.5	5194.9	5027.9	4900.3	4751.3	4266.9
27.5°	5322.5	5368.4	5486.2	5553.3	5514.0	5471.5	5379.8	5178.5	5055.8	4934.7	4402.7
30°	5595.8	5625.3	5749.7	5779.2	5738.2	5684.2	5586.0	5384.8	5276.7	5183.4	4599.1
32.5°	5854.5	5918.3	6021.4	6014.8	5959.2	5933.0	5843.0	5628.6	5568.0	5558.3	4874.1
35°	6113.1	6162.2	6253.8	6276.7	6227.6	6222.7	6157.2	5998.5	6000.1	6063.9	5302.9
37.5°	6335.7	6379.8	6487.9	6538.6	6548.4	6573.0	6546.8	6442.1	6591.0	6766.1	5870.9
40°	6522.2	6584.4	6721.9	6810.2	6911.8	7001.7	7006.7	7029.6	7329.1	7630.2	6612.3
42.5°	6667.9	6754.7	6954.3	7118.0	7350.4	7465.0	7556.6	7682.6	8186.7	8636.8	7486.2
45°	6857.8	6957.6	7206.4	7463.3	7826.7	8014.9	8142.6	8479.7	9194.9	9808.7	8383.2
47.5°	7172.0	7224.4	7478.1	7852.8	8330.8	8599.2	8848.0	9358.6	10276.8	10826.7	9129.5
50°	7576.2	7610.6	7802.1	8322.6	8941.3	9294.8	9748.1	10348.8	11399.6	11671.2	9551.7
52.5°	8023.1	8034.5	8178.6	8839.8	9625.4	10070.6	10577.9	11319.4	12314.5	12273.6	9831.6
55°	8541.9	8525.6	8648.3	9401.2	10435.5	10944.6	11535.4	12312.8	13108.2	12700.8	9992.0
57.5°	9136.0	9091.8	9211.3	10145.8	11473.3	12082.1	12682.7	13170.5	13723.7	13059.2	10069.0
60°	9758.0	9669.6	9811.9	10982.2	12695.8	13273.6	13772.8	13903.7	14371.8	13344.0	9936.3
62.5°	10253.9	10255.5	10520.7	11872.6	13952.8	14458.6	14723.7	14841.5	14929.9	13281.7	9239.1
65°	11028.0	11054.2	11478.1	13108.2	15407.8	15846.5	16028.1	15645.1	14954.5	12509.3	8191.7
67.5°	11826.7	11910.2	12686.0	14810.4	17088.7	17442.3	17208.2	15800.6	14286.7	10746.6	6211.3
70°	12087.0	12224.4	13502.8	15982.3	18096.9	18280.2	17488.1	15075.6	11943.0	7185.1	3126.1
72.5°	11075.5	11298.1	13033.0	15555.1	17453.7	17294.9	15646.8	12643.4	7592.6	2728.4	954.2
75°	7810.3	7908.5	10831.7	12903.7	14037.9	13587.9	11902.0	8150.7	3122.8	766.0	327.3
77.5°	4032.8	3985.3	6442.1	8561.5	10011.7	9545.2	7794.0	4219.4	1183.4	319.2	202.9
80°	2085.2	2119.5	2787.3	4486.1	6111.4	5623.7	4155.5	1955.8	630.2	176.8	155.5
82.5°	1168.6	1096.6	1602.4	1959.1	2857.6	2240.6	1594.1	1384.6	274.9	106.4	147.3
85°	212.8	222.6	878.9	1058.9	991.9	630.2	513.9	924.8	80.2	59.0	103.1
87.5°	3.3	3.3	170.2	304.4	193.1	88.4	162.1	132.5	16.4	22.9	18.0
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°	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4	3800.4
2.5°	3782.4	3720.2	3604.0	3489.4	3343.7	3224.3	3144.1	3060.7	2975.5	2982.0	3001.7
5°	3717.0	3608.9	3379.8	3137.5	2905.2	2695.7	2489.4	2304.4	2229.2	2160.4	2163.7
7.5°	3651.5	3499.2	3163.8	2784.0	2432.1	2075.3	1816.7	1604.0	1491.0	1405.9	1381.3
10°	3622.0	3420.7	2965.7	2443.6	1944.4	1554.8	1222.6	1049.1	914.9	872.4	883.8
12.5°	3635.1	3381.4	2787.3	2135.9	1541.8	1083.5	851.1	762.7	733.3	728.3	725.0
15°	3659.6	3353.6	2612.1	1795.5	1132.6	805.3	715.3	698.9	695.6	692.3	694.0
17.5°	3692.4	3329.0	2425.6	1476.3	869.1	703.7	677.6	669.4	667.8	667.8	667.8
20°	3725.1	3301.2	2217.7	1191.5	725.0	664.5	648.2	643.2	641.6	641.6	639.9
22.5°	3762.7	3276.6	2006.6	936.2	667.8	636.6	621.9	618.6	617.0	615.4	615.4
25°	3816.8	3245.6	1782.3	766.0	631.8	610.5	595.8	592.5	590.9	584.3	585.9
27.5°	3888.8	3222.6	1551.6	661.2	599.0	577.8	567.9	563.0	559.8	554.8	556.5
30°	3987.0	3203.0	1306.1	603.9	561.4	543.4	533.5	530.3	527.1	522.1	522.1
32.5°	4157.2	3211.2	1047.5	558.1	527.1	505.8	495.9	492.7	489.4	484.5	484.5
35°	4412.6	3258.6	838.0	518.8	486.1	464.8	455.0	455.0	450.1	443.5	441.9
37.5°	4829.9	3379.8	672.7	481.2	446.8	427.1	415.7	412.4	407.5	397.7	396.1
40°	5322.5	3568.0	566.3	443.5	410.8	391.1	381.3	371.6	358.4	348.6	347.0
42.5°	5941.2	3761.1	491.0	405.9	376.4	358.4	347.0	330.6	311.0	297.9	296.2
45°	6586.0	3937.9	440.3	371.6	343.7	329.0	315.9	289.7	265.2	248.8	247.2
47.5°	7067.3	3970.6	399.4	338.8	315.9	301.2	283.2	250.4	217.7	202.9	198.1
50°	7294.7	3811.8	356.8	306.0	288.0	271.7	248.8	211.2	175.1	157.1	153.8
52.5°	7375.0	3536.9	322.4	276.6	260.2	240.6	212.8	170.2	137.5	119.5	117.8
55°	7342.2	3189.9	291.3	248.8	227.5	204.6	176.8	135.8	101.5	86.7	83.5
57.5°	7170.4	2748.0	260.2	220.9	194.8	171.8	140.8	101.5	68.7	55.7	54.0
60°	6707.1	2145.7	229.2	189.9	165.3	140.8	111.3	72.0	42.6	31.1	31.1
62.5°	5924.8	1592.5	199.7	158.8	139.1	112.9	78.5	45.8	22.9	16.4	14.7
65°	4951.0	1175.1	166.9	134.2	116.2	88.4	55.7	27.8	11.4	4.9	3.3
67.5°	3455.1	725.0	139.1	109.7	94.9	63.8	34.4	11.4	4.9	0.0	0.0
70°	1569.6	345.3	106.4	83.5	72.0	45.8	18.0	6.6	3.3	0.0	0.0
72.5°	487.7	181.7	75.3	60.6	49.1	29.4	9.8	4.9	3.3	0.0	0.0
75°	225.9	116.2	47.4	32.7	27.8	14.7	6.6	3.3	1.6	0.0	0.0
77.5°	168.6	90.0	27.8	18.0	14.7	9.8	4.9	3.3	1.6	0.0	0.0
80°	147.3	45.8	16.4	11.4	8.2	6.6	3.3	1.6	0.0	0.0	0.0
82.5°	132.5	22.9	9.8	6.6	4.9	3.3	1.6	1.6	0.0	0.0	0.0
85°	72.0	13.1	6.6	4.9	3.3	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	13.1	6.6	4.9	3.3	3.3	1.6	1.6	1.6	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)