

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: P652581

Luminaire Tested: **GALN-SA8B-840-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30255 lumens  
Efficiency: N/A  
Efficacy: 93.1 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

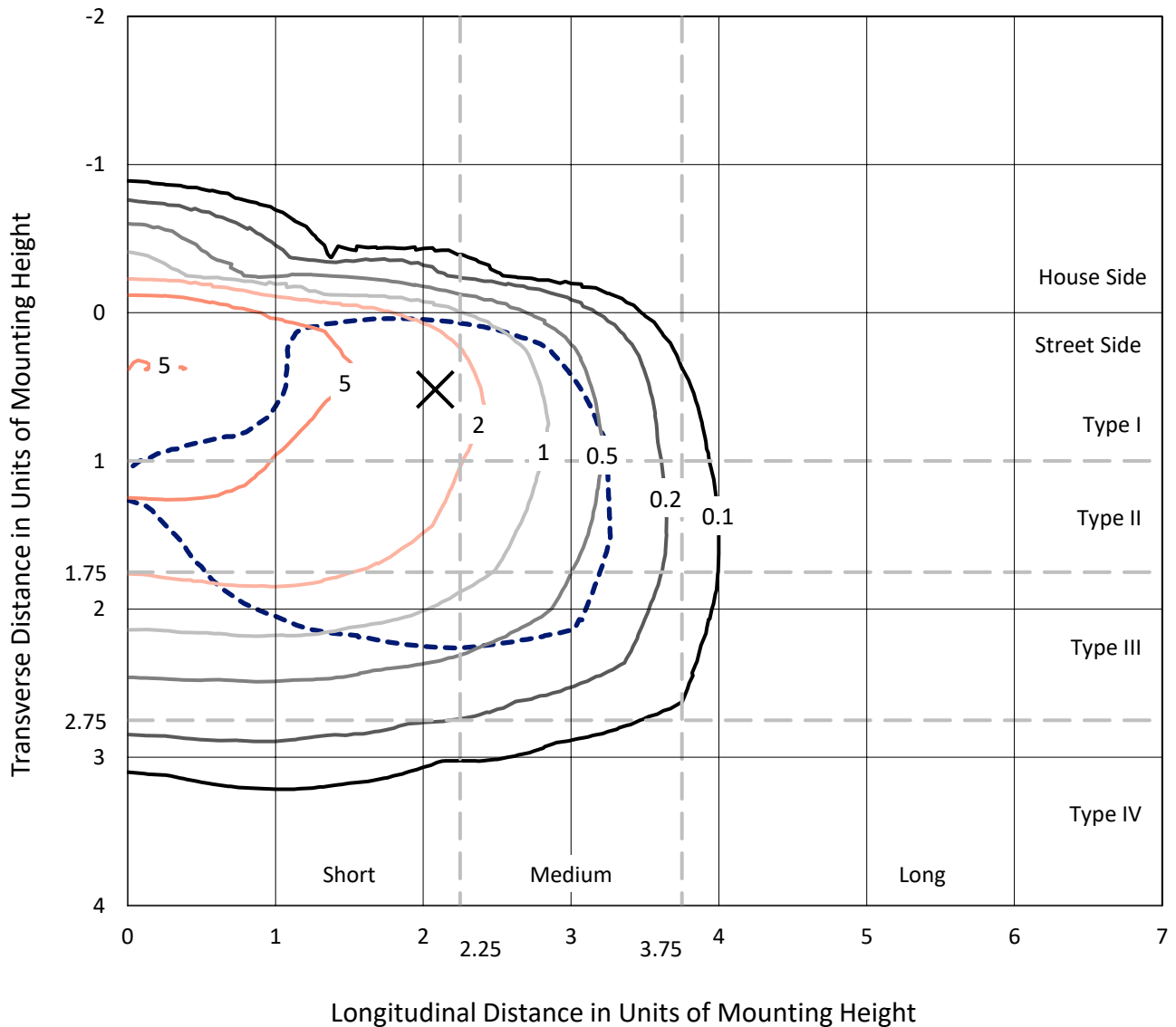
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

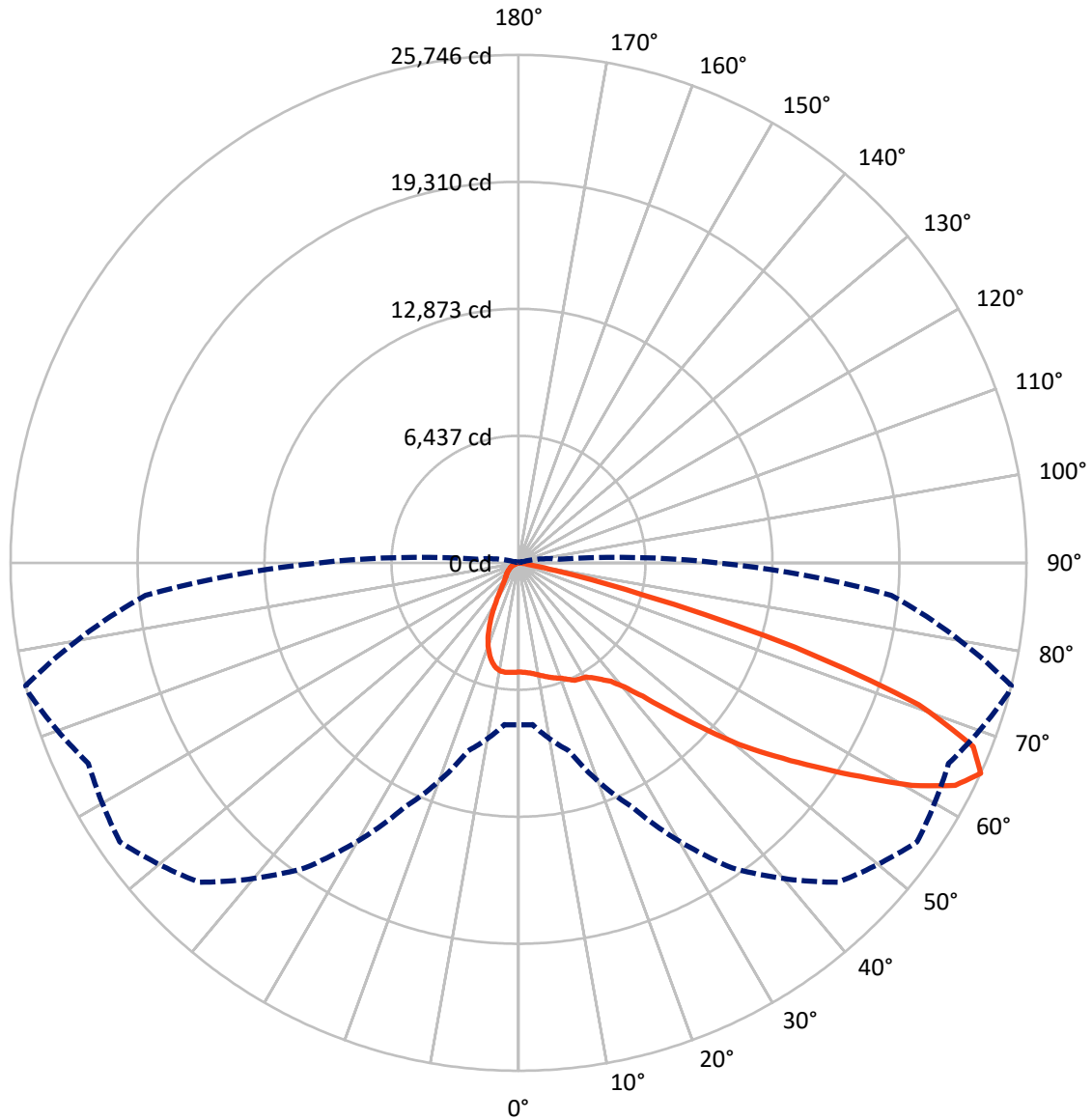
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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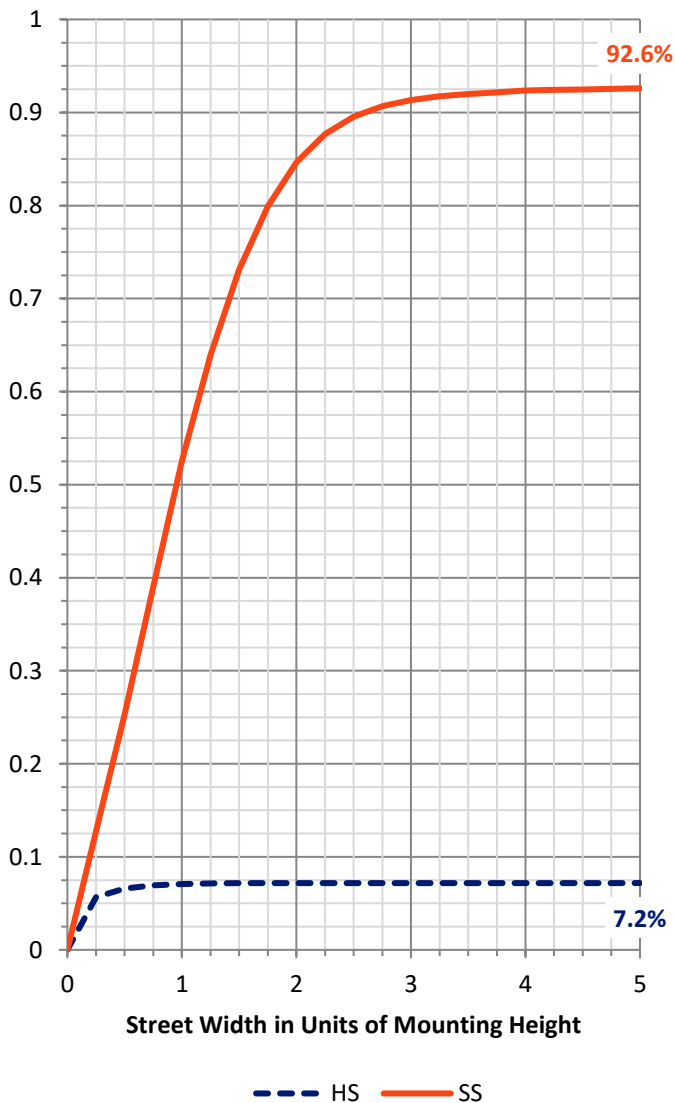
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2185.0	0.0	2185.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	28070.0	0.0	28070.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	30255.0	0.0	30255.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.9	1.5
10°-20°	1015.1	3.4
20°-30°	1635.8	5.4
30°-40°	2844.3	9.4
40°-50°	4700.0	15.5
50°-60°	7260.5	24.0
60°-70°	8866.1	29.3
70°-80°	3364.9	11.1
80°-90°	112.3	0.4
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°	30255.0	100.0
0°-180°	30255.0	100.0

**Coefficient of Utilization**

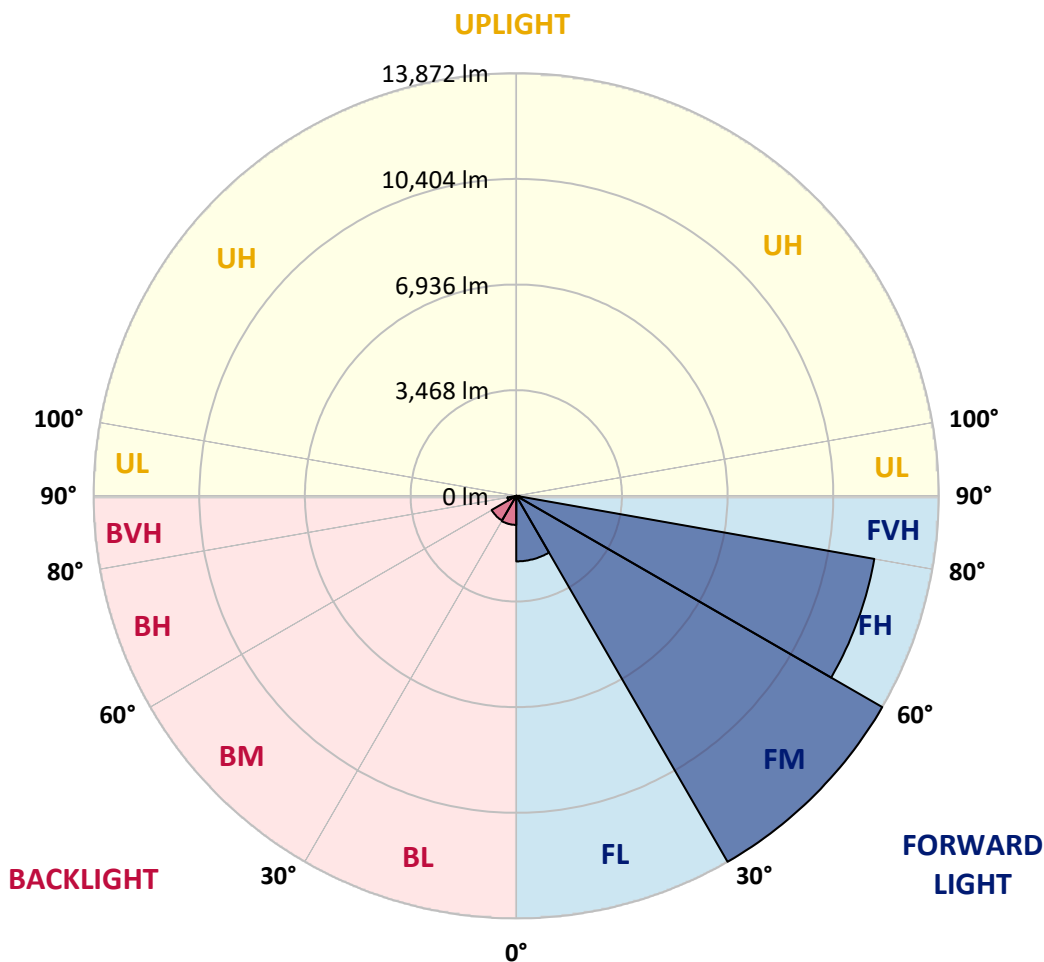


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.3	7.1			
FM (30°-60°)	13872.4	45.9			
FH (60°-80°)	11934.6	39.4			G4/12000
FVH (80°-90°)	110.8	0.4			G2/225
BL (0°-30°)	954.6	3.2	B2/1000		
BM (30°-60°)	932.4	3.1	B1/1000		
BH (60°-80°)	296.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	45°	55°	65°	75°	76°	85°
0°	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6
2.5°	5289.0	5291.1	5303.9	5336.0	5385.1	5425.6	5459.9	5515.4	5553.8	5558.1	5571.0
5°	4923.7	4898.1	4923.7	5007.0	5081.7	5194.9	5333.8	5472.6	5596.5	5605.1	5664.9
7.5°	4513.6	4534.9	4575.5	4660.9	4801.9	4974.9	5175.8	5423.5	5658.5	5679.9	5797.3
10°	4097.0	4144.0	4210.2	4340.6	4537.0	4761.3	5034.7	5389.4	5756.7	5786.7	5989.6
12.5°	3712.5	3733.9	3815.0	3990.2	4233.8	4549.9	4927.9	5370.1	5865.7	5902.0	6194.6
15°	3417.7	3445.5	3516.0	3674.1	3945.4	4351.2	4840.4	5363.7	5972.5	6023.7	6399.7
17.5°	3362.2	3379.3	3409.2	3516.0	3753.1	4193.1	4761.3	5361.5	6075.0	6136.9	6589.8
20°	3590.7	3575.8	3545.9	3535.2	3665.5	4071.4	4703.6	5378.7	6173.3	6243.8	6790.7
22.5°	4163.2	4182.5	4007.3	3800.1	3757.3	4052.2	4695.1	5459.9	6329.2	6412.5	7014.9
25°	5378.7	5231.3	4957.9	4462.3	4088.4	4169.7	4791.3	5652.1	6510.8	6602.6	7217.8
27.5°	6722.3	6677.4	6252.3	5436.3	4740.0	4417.4	4962.2	5799.5	6570.6	6664.6	7333.2
30°	8042.4	8095.8	7608.8	6707.3	5686.3	4876.7	5122.4	5855.0	6624.0	6722.3	7480.6
32.5°	9266.3	9330.4	8903.2	8010.4	6801.3	5671.3	5397.9	6070.8	6848.3	6948.7	7726.3
35°	10229.8	10238.2	9915.7	9204.4	8018.9	6636.8	5993.9	6448.9	7151.6	7269.1	7986.8
37.5°	11114.1	11101.3	10723.2	10110.1	9033.5	7595.9	6743.6	6884.6	7497.7	7619.5	8362.8
40°	11769.9	11778.4	11656.6	11079.9	9979.8	8482.4	7337.5	7292.6	8078.6	8268.8	8909.6
42.5°	12207.7	12286.8	12346.6	12054.0	11169.6	9573.9	8249.5	8166.3	9086.9	9244.9	9682.9
45°	12562.4	12703.3	13002.4	12987.4	12312.4	10913.2	9501.3	9330.4	10515.9	10684.7	10667.6
47.5°	12820.8	12963.9	13459.4	13758.5	13386.9	12212.0	11075.6	10928.2	12222.7	12406.4	11754.9
50°	12953.3	13124.1	13756.4	14335.3	14226.4	13463.7	12869.9	12878.5	14284.0	14461.3	13015.1
52.5°	12643.5	12865.6	13914.4	14956.8	15168.4	14662.1	14551.0	14833.0	16118.9	16270.6	14153.7
55°	11654.5	11934.3	13698.7	15486.6	16259.9	16076.2	16460.7	16890.1	18124.7	18223.0	15322.2
57.5°	11028.6	11325.5	13062.2	15937.4	17571.4	17853.4	18462.2	18776.2	20194.6	20444.5	16663.6
60°	10501.0	10733.9	12538.8	16033.5	18904.3	20027.9	20619.6	20944.3	22749.3	22911.7	18139.6
62.5°	9623.1	9890.1	11654.5	15362.7	19575.1	21768.9	22995.0	22849.7	24725.2	24838.4	19045.4
65°	8211.1	8234.7	9860.1	13677.4	18883.0	22898.8	24663.3	24054.5	25669.3	25746.3	18974.9
67.5°	6128.5	6354.8	7585.2	10750.9	15950.2	21933.4	25203.7	24086.5	25073.4	24859.8	17468.9
70°	3947.5	4120.5	5141.5	7455.0	11500.7	18304.1	23411.5	22435.4	22005.9	21531.8	14298.9
72.5°	1822.1	2044.2	3054.6	4259.3	6820.5	13038.7	19004.7	18227.2	15839.1	14668.5	9089.0
75°	794.7	850.2	1508.1	2247.2	3197.7	6895.3	12530.3	11314.8	7153.7	6534.3	3637.7
77.5°	484.9	521.2	790.4	1204.7	1256.0	2627.4	6750.0	4936.5	2210.8	1950.3	986.9
80°	329.0	369.5	574.6	630.2	429.3	732.7	2533.4	1317.9	446.4	427.2	211.5
82.5°	160.2	202.9	425.0	352.5	185.9	235.0	737.0	282.0	130.3	121.8	74.8
85°	23.5	40.6	239.3	230.7	83.3	55.5	130.3	70.5	44.8	42.7	34.1
87.5°	0.0	0.0	81.2	36.3	8.6	8.6	15.0	15.0	17.1	15.0	17.1
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°	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6	5534.6
2.5°	5577.3	5588.0	5547.4	5489.7	5427.8	5365.8	5278.3	5199.2	5152.2	5180.0	5111.7
5°	5677.8	5669.2	5562.4	5387.2	5154.4	4874.5	4596.8	4359.7	4282.9	4167.5	4154.7
7.5°	5816.5	5793.1	5566.7	5165.1	4639.5	4114.1	3601.4	3261.8	3067.4	2903.0	2907.3
10°	6011.0	5942.6	5517.5	4774.2	3909.1	3116.6	2462.9	2014.4	1819.9	1758.0	1708.8
12.5°	6211.7	6079.3	5380.8	4246.5	3043.9	2129.7	1497.4	1224.0	1104.3	1065.9	1061.6
15°	6391.2	6181.9	5141.5	3612.1	2213.0	1360.7	1021.1	931.3	916.4	918.5	916.4
17.5°	6568.5	6263.0	4810.4	2939.3	1503.8	976.2	877.9	856.6	863.0	871.5	869.4
20°	6715.9	6280.1	4387.5	2242.9	1063.8	856.6	824.5	820.2	826.7	833.1	833.1
22.5°	6876.1	6293.0	3885.5	1552.9	869.4	796.8	779.7	779.7	788.2	796.8	798.9
25°	6995.7	6222.4	3285.3	1115.0	766.8	739.1	730.6	732.7	741.3	745.5	743.4
27.5°	7014.9	6023.7	2648.7	854.5	696.3	668.6	660.0	668.6	657.9	664.3	660.0
30°	7032.0	5771.7	2003.7	719.9	632.3	589.5	576.8	563.9	555.4	544.7	542.5
32.5°	7085.4	5474.8	1463.3	647.2	572.5	525.5	495.6	459.3	431.5	422.9	420.8
35°	7108.9	5118.1	1074.5	589.5	519.1	467.8	414.4	363.1	322.5	307.6	318.3
37.5°	7198.6	4772.0	833.1	546.8	472.1	408.0	339.6	275.6	237.1	228.6	232.9
40°	7382.3	4396.1	698.5	510.5	431.5	352.5	269.1	207.2	181.6	173.0	170.9
42.5°	7677.1	4022.3	621.6	476.3	390.9	297.0	211.5	162.3	141.0	134.6	134.6
45°	8035.9	3663.4	568.2	440.0	348.2	239.3	166.6	130.3	117.5	113.2	113.2
47.5°	8508.1	3349.4	523.4	403.7	301.2	190.2	134.6	113.2	104.7	106.8	108.9
50°	8986.5	3116.6	474.2	363.1	247.8	155.9	115.4	100.4	98.2	100.4	100.4
52.5°	9347.5	2979.8	408.0	307.6	194.4	130.3	102.5	94.0	91.8	87.5	87.5
55°	9834.6	2950.0	324.7	249.9	153.8	108.9	91.8	85.4	79.1	74.8	72.7
57.5°	10460.4	2984.1	249.9	194.4	119.6	89.7	81.2	70.5	62.0	53.4	53.4
60°	10849.2	2907.3	194.4	149.5	87.5	72.7	62.0	51.3	40.6	34.1	32.0
62.5°	10725.3	2582.5	153.8	111.1	62.0	53.4	40.6	34.1	23.5	17.1	15.0
65°	10086.6	2084.8	123.9	76.9	44.8	32.0	21.4	21.4	10.7	2.1	0.0
67.5°	8828.5	1544.4	98.2	51.3	25.7	15.0	10.7	6.4	0.0	0.0	0.0
70°	7185.8	1115.0	76.9	32.0	15.0	10.7	4.3	2.1	0.0	0.0	0.0
72.5°	4562.7	638.7	59.8	19.3	10.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	1764.4	249.9	40.6	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	499.8	117.5	23.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	130.3	51.3	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.0	21.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.3	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	2.1	0.0	0.0	0.0	0.0	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)