

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: P455172

Luminaire Tested: **GALN-SA6B-750-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455172
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-SA6B-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 26418 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

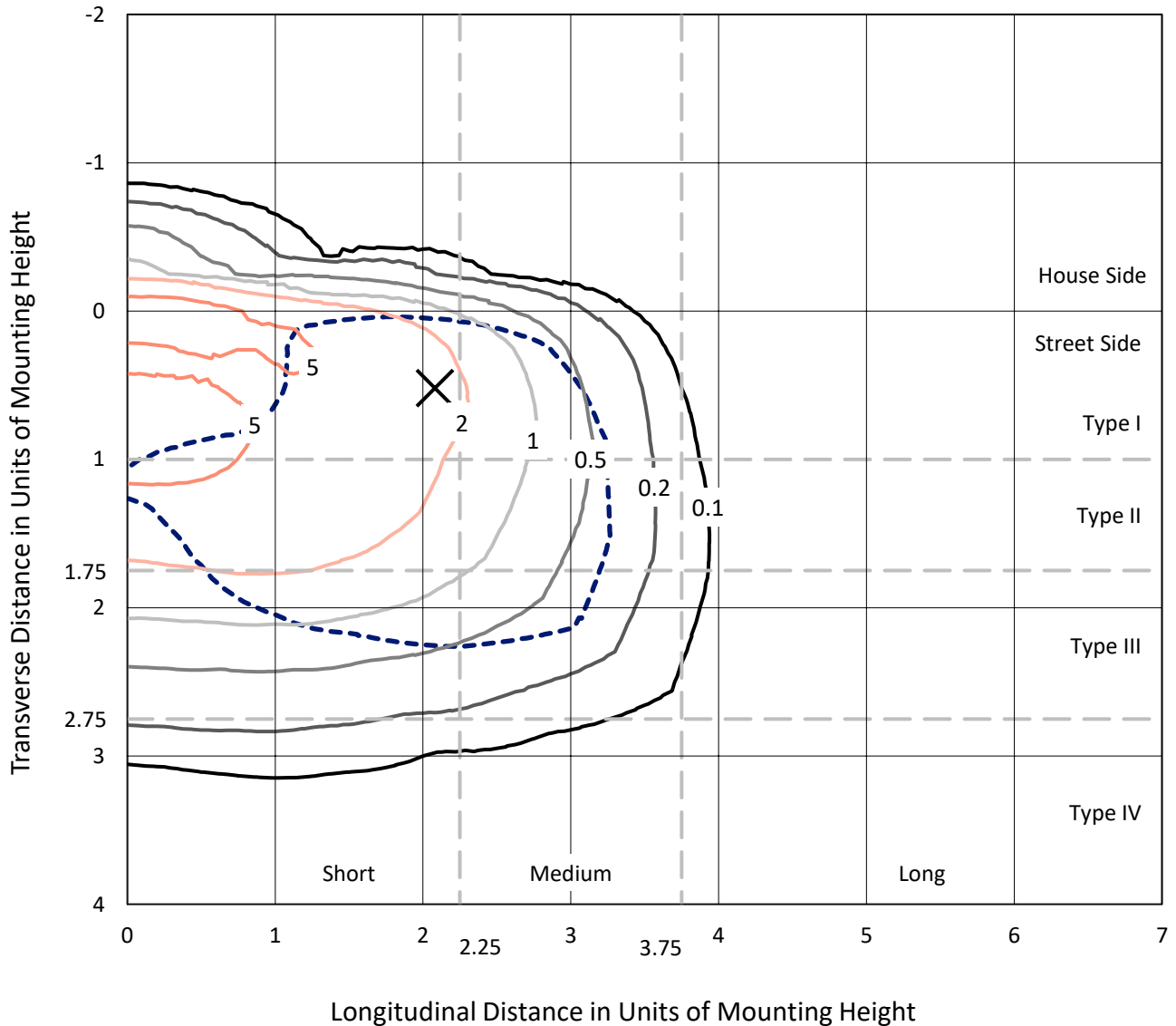
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

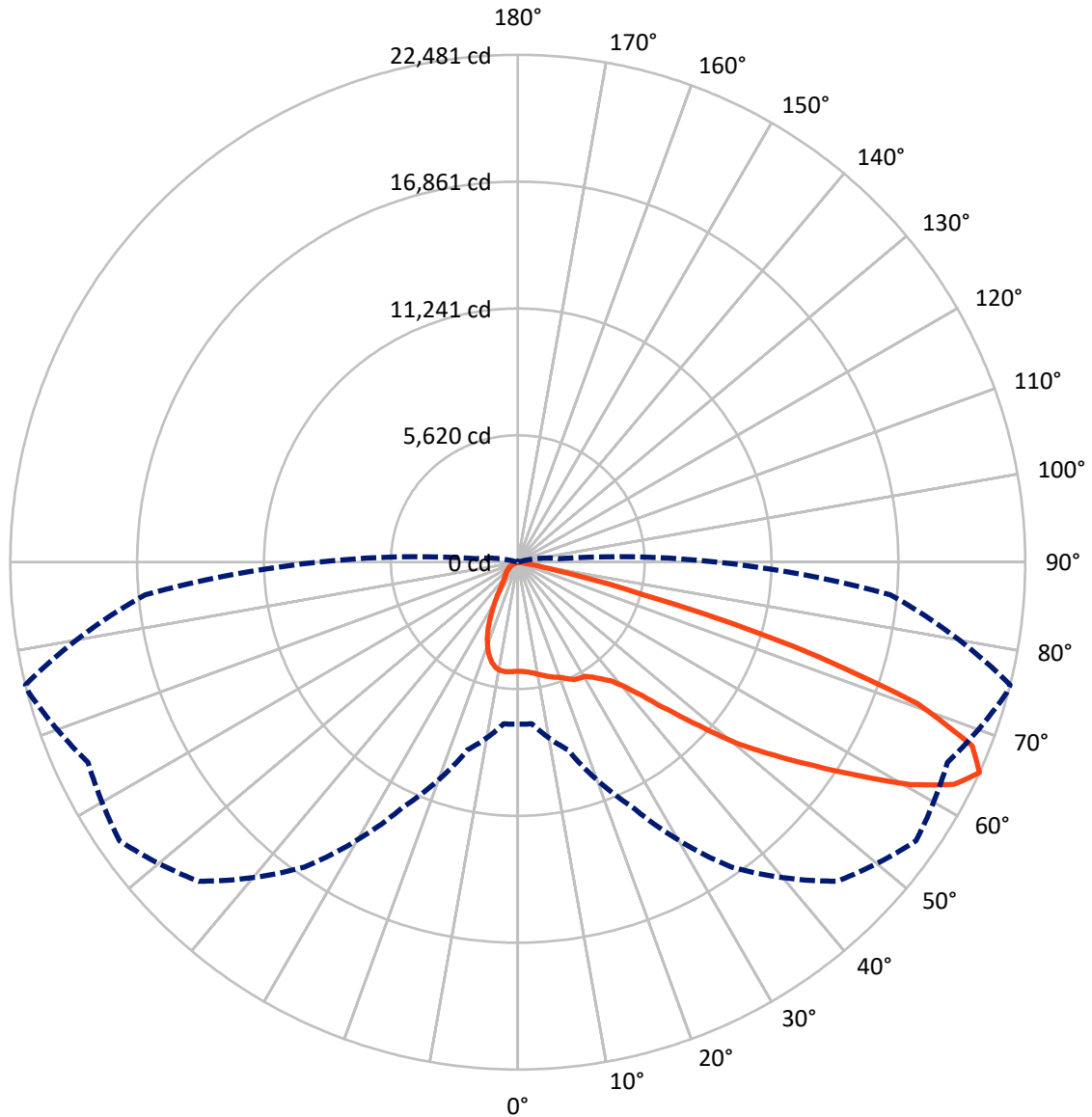
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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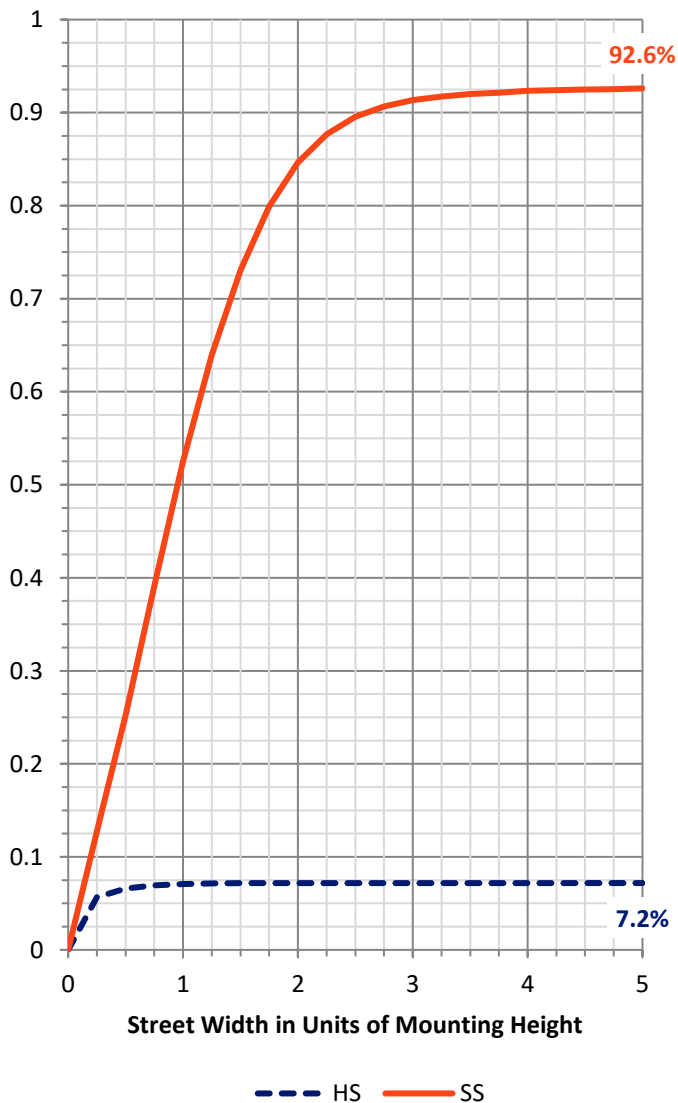
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1907.9	0.0	1907.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24510.1	0.0	24510.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	26418.0	0.0	26418.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.1	1.5
10°-20°	886.4	3.4
20°-30°	1428.4	5.4
30°-40°	2483.6	9.4
40°-50°	4103.9	15.5
50°-60°	6339.7	24.0
60°-70°	7741.7	29.3
70°-80°	2938.2	11.1
80°-90°	98.1	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°	26418.0	100.0
0°-180°	26418.0	100.0



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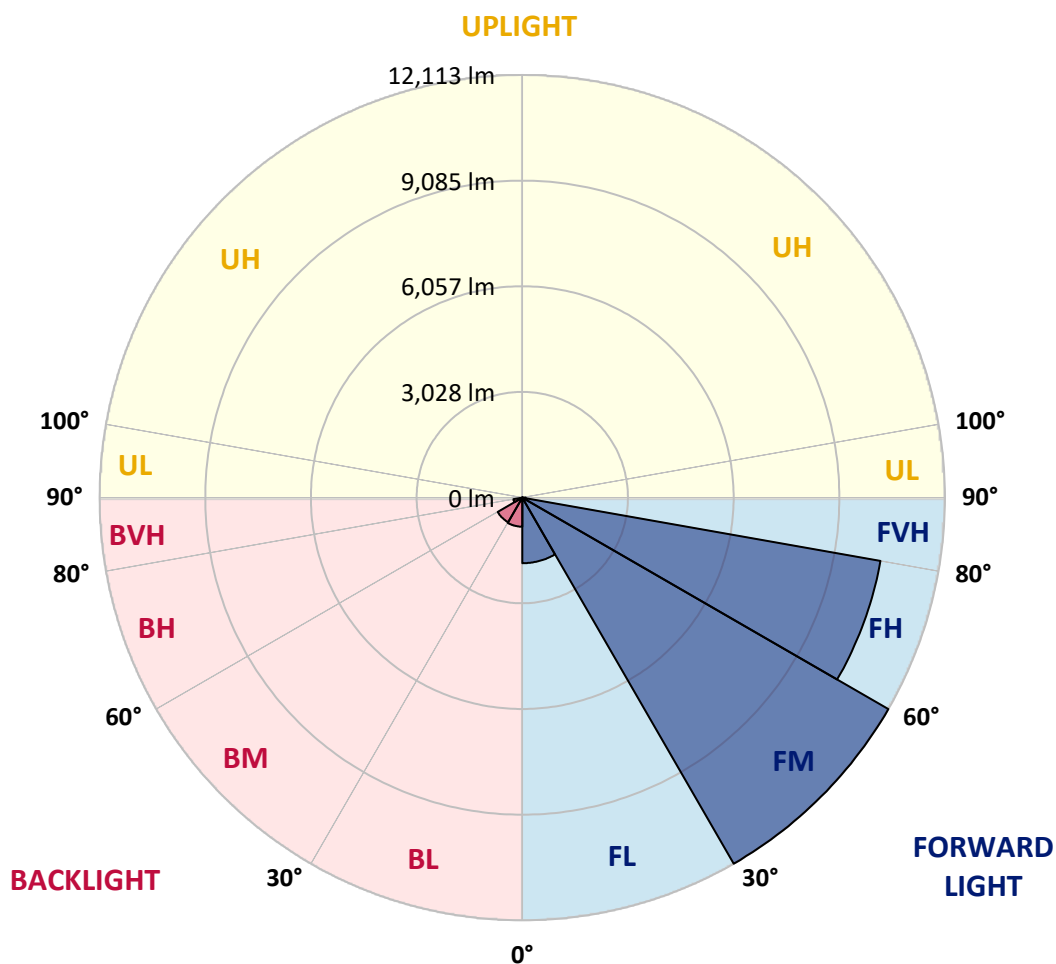
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.3	7.1			
FM (30°-60°)	12113.1	45.9			
FH (60°-80°)	10421.0	39.4			G4/12000
FVH (80°-90°)	96.7	0.4			G1/100
BL (0°-30°)	833.5	3.2	B2/1000		
BM (30°-60°)	814.2	3.1	B1/1000		
BH (60°-80°)	258.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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°	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7
2.5°	4618.2	4620.1	4631.3	4659.2	4702.1	4737.6	4767.4	4815.9	4849.5	4853.2	4864.4
5°	4299.3	4276.9	4299.3	4372.0	4437.3	4536.1	4657.4	4778.6	4886.8	4894.2	4946.5
7.5°	3941.1	3959.8	3995.2	4069.8	4192.9	4344.0	4519.3	4735.7	4940.9	4959.5	5062.1
10°	3577.4	3618.5	3676.3	3790.1	3961.7	4157.5	4396.2	4705.9	5026.7	5052.8	5230.0
12.5°	3241.7	3260.3	3331.2	3484.2	3696.8	3972.8	4303.0	4689.1	5121.8	5153.5	5409.0
15°	2984.3	3008.5	3070.1	3208.1	3445.0	3799.4	4226.5	4683.5	5215.1	5259.8	5588.1
17.5°	2935.8	2950.7	2976.8	3070.1	3277.1	3661.4	4157.5	4681.6	5304.6	5358.7	5754.1
20°	3135.4	3122.3	3096.2	3086.9	3200.7	3555.0	4107.1	4696.5	5390.4	5451.9	5929.4
22.5°	3635.2	3652.0	3499.1	3318.2	3280.9	3538.3	4099.7	4767.4	5526.5	5599.3	6125.3
25°	4696.5	4567.8	4329.1	3896.4	3570.0	3640.8	4183.6	4935.3	5685.1	5765.3	6302.5
27.5°	5869.7	5830.6	5459.4	4746.9	4138.8	3857.2	4332.8	5064.0	5737.3	5819.4	6403.2
30°	7022.4	7069.1	6643.8	5856.7	4965.1	4258.2	4472.7	5112.5	5783.9	5869.7	6531.9
32.5°	8091.2	8147.1	7774.1	6994.4	5938.8	4952.1	4713.3	5300.9	5979.8	6067.4	6746.4
35°	8932.4	8939.8	8658.2	8037.1	7001.9	5795.1	5233.7	5631.0	6244.6	6347.2	6973.9
37.5°	9704.6	9693.4	9363.2	8827.9	7887.9	6632.6	5888.4	6011.5	6546.8	6653.1	7302.2
40°	10277.2	10284.6	10178.3	9674.7	8714.1	7406.7	6406.9	6367.7	7054.1	7220.1	7779.7
42.5°	10659.5	10728.5	10780.8	10525.2	9753.1	8359.8	7203.3	7130.6	7934.5	8072.5	8454.9
45°	10969.2	11092.3	11353.4	11340.3	10750.9	9529.2	8296.3	8147.1	9182.3	9329.7	9314.7
47.5°	11194.8	11319.8	11752.5	12013.7	11689.1	10663.3	9671.0	9542.3	10672.6	10833.0	10264.1
50°	11310.5	11459.7	12011.8	12517.3	12422.1	11756.3	11237.7	11245.2	12472.5	12627.3	11364.6
52.5°	11040.0	11234.0	12149.8	13060.0	13244.7	12802.6	12705.6	12951.8	14074.7	14207.1	12358.7
55°	10176.5	10420.8	11961.4	13522.6	14197.8	14037.4	14373.1	14748.0	15826.1	15911.9	13379.0
57.5°	9630.0	9889.2	11405.6	13916.1	15343.0	15589.2	16120.8	16395.0	17633.5	17851.7	14550.3
60°	9169.3	9372.6	10948.6	14000.1	16506.9	17488.0	18004.6	18288.1	19864.2	20006.0	15839.2
62.5°	8402.7	8635.8	10176.5	13414.4	17092.6	19008.1	20078.7	19951.9	21589.5	21688.4	16630.0
65°	7169.8	7190.3	8609.7	11942.8	16488.2	19994.8	21535.4	21003.9	22413.9	22481.1	16568.4
67.5°	5351.2	5548.9	6623.3	9387.5	13927.3	19151.7	22007.3	21031.8	21893.5	21707.0	15253.5
70°	3446.9	3597.9	4489.5	6509.5	10042.2	15982.8	20442.4	19590.0	19215.1	18801.1	12485.6
72.5°	1591.0	1785.0	2667.2	3719.2	5955.5	11385.1	16594.6	15915.6	13830.3	12808.2	7936.4
75°	693.8	742.3	1316.8	1962.2	2792.2	6020.8	10941.2	9879.9	6246.5	5705.6	3176.4
77.5°	423.4	455.1	690.1	1052.0	1096.7	2294.2	5894.0	4310.4	1930.5	1702.9	861.7
80°	287.2	322.7	501.7	550.2	374.9	639.8	2212.1	1150.8	389.8	373.0	184.7
82.5°	139.9	177.2	371.2	307.8	162.3	205.2	643.5	246.2	113.8	106.3	65.3
85°	20.5	35.4	208.9	201.4	72.7	48.5	113.8	61.6	39.2	37.3	29.8
87.5°	0.0	0.0	70.9	31.7	7.5	7.5	13.1	13.1	14.9	13.1	14.9
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°	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7
2.5°	4870.0	4879.3	4843.9	4793.5	4739.4	4685.3	4608.9	4539.9	4498.8	4523.1	4463.4
5°	4957.7	4950.2	4856.9	4704.0	4500.7	4256.4	4013.9	3806.8	3739.7	3639.0	3627.8
7.5°	5078.9	5058.4	4860.7	4510.0	4051.2	3592.3	3144.7	2848.1	2678.4	2534.8	2538.5
10°	5248.6	5188.9	4817.8	4168.7	3413.3	2721.3	2150.6	1758.9	1589.1	1535.0	1492.1
12.5°	5424.0	5308.3	4698.4	3708.0	2657.9	1859.6	1307.5	1068.8	964.3	930.7	927.0
15°	5580.6	5397.8	4489.5	3154.0	1932.3	1188.1	891.6	813.2	800.2	802.0	800.2
17.5°	5735.4	5468.7	4200.4	2566.5	1313.1	852.4	766.6	747.9	753.5	761.0	759.1
20°	5864.1	5483.6	3831.1	1958.4	928.9	747.9	720.0	716.2	721.8	727.4	727.4
22.5°	6004.0	5494.8	3392.8	1356.0	759.1	695.7	680.8	680.8	688.3	695.7	697.6
25°	6108.5	5433.3	2868.7	973.6	669.6	645.4	637.9	639.8	647.2	650.9	649.1
27.5°	6125.3	5259.8	2312.8	746.1	608.1	583.8	576.3	583.8	574.5	580.1	576.3
30°	6140.2	5039.7	1749.5	628.6	552.1	514.8	503.6	492.4	484.9	475.6	473.8
32.5°	6186.8	4780.5	1277.7	565.2	499.9	458.8	432.7	401.0	376.8	369.3	367.4
35°	6207.3	4469.0	938.2	514.8	453.2	408.5	361.8	317.1	281.6	268.6	277.9
37.5°	6285.7	4166.8	727.4	477.5	412.2	356.3	296.6	240.6	207.0	199.6	203.3
40°	6446.1	3838.6	609.9	445.8	376.8	307.8	235.0	180.9	158.5	151.1	149.2
42.5°	6703.5	3512.1	542.8	415.9	341.3	259.3	184.7	141.8	123.1	117.5	117.5
45°	7016.8	3198.8	496.1	384.2	304.0	208.9	145.5	113.8	102.6	98.9	98.9
47.5°	7429.0	2924.6	457.0	352.5	263.0	166.0	117.5	98.9	91.4	93.3	95.1
50°	7846.8	2721.3	414.1	317.1	216.4	136.2	100.7	87.7	85.8	87.7	87.7
52.5°	8162.1	2601.9	356.3	268.6	169.7	113.8	89.5	82.1	80.2	76.5	76.5
55°	8587.3	2575.8	283.5	218.2	134.3	95.1	80.2	74.6	69.0	65.3	63.4
57.5°	9133.8	2605.7	218.2	169.7	104.5	78.3	70.9	61.6	54.1	46.6	46.6
60°	9473.3	2538.5	169.7	130.6	76.5	63.4	54.1	44.8	35.4	29.8	28.0
62.5°	9365.1	2255.0	134.3	97.0	54.1	46.6	35.4	29.8	20.5	14.9	13.1
65°	8807.4	1820.4	108.2	67.1	39.2	28.0	18.7	18.7	9.3	1.9	0.0
67.5°	7708.8	1348.5	85.8	44.8	22.4	13.1	9.3	5.6	0.0	0.0	0.0
70°	6274.5	973.6	67.1	28.0	13.1	9.3	3.7	1.9	0.0	0.0	0.0
72.5°	3984.0	557.7	52.2	16.8	9.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	1540.6	218.2	35.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	436.5	102.6	20.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	113.8	44.8	11.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.1	18.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.7	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	1.9	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)