

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: P454679

Luminaire Tested: **GALN-SA5D-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454679
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-SA5D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 30332 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

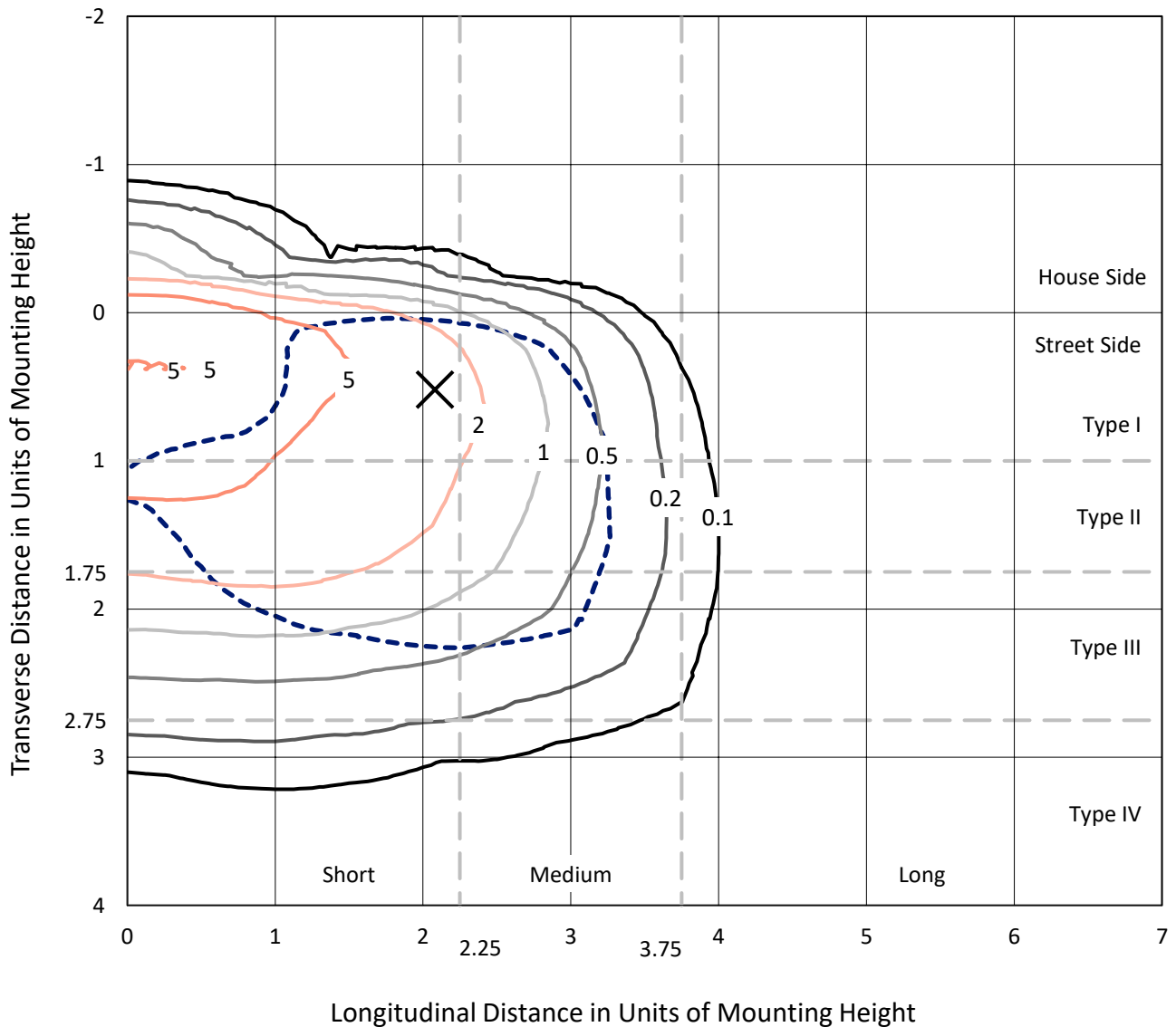
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

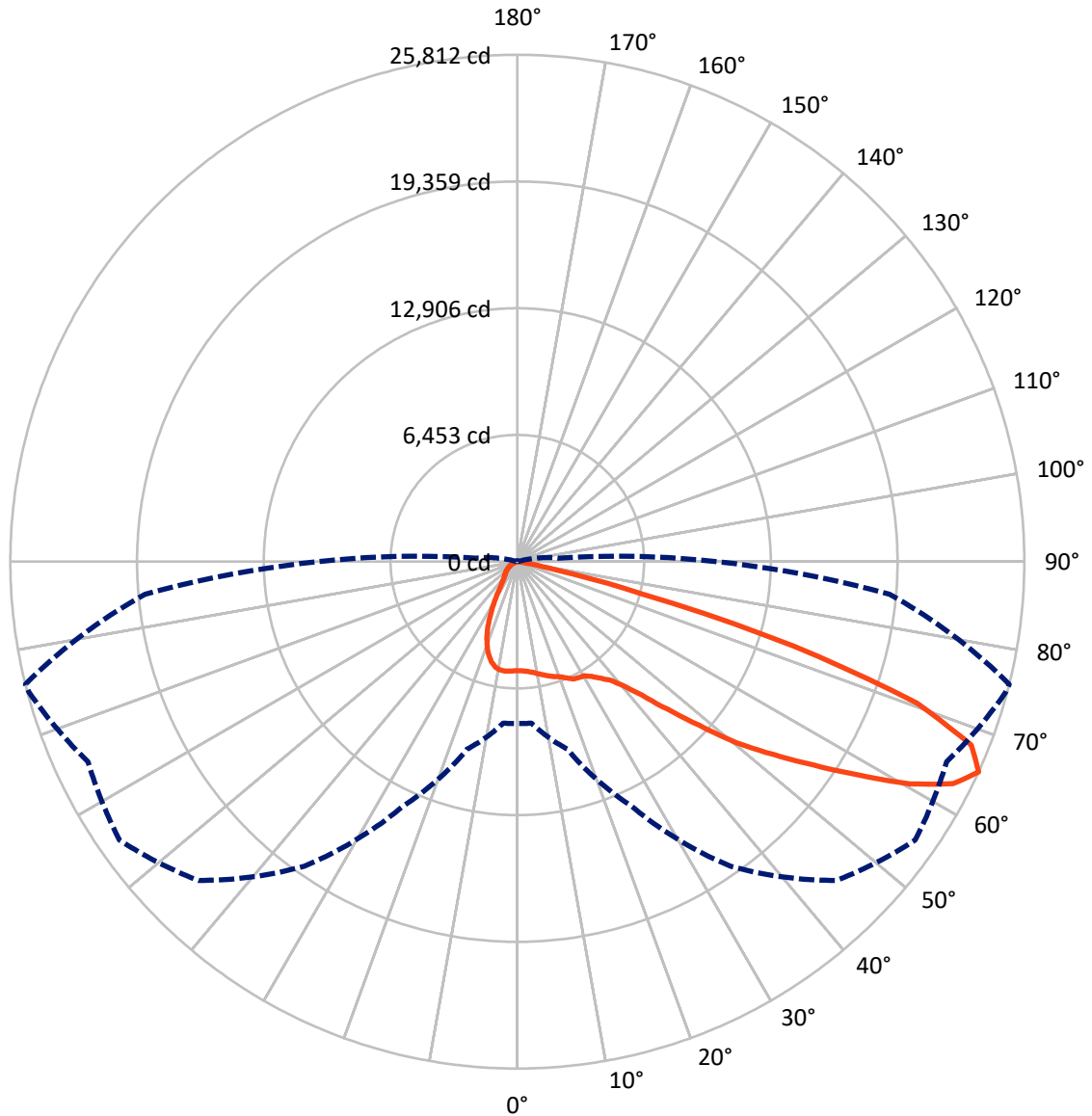
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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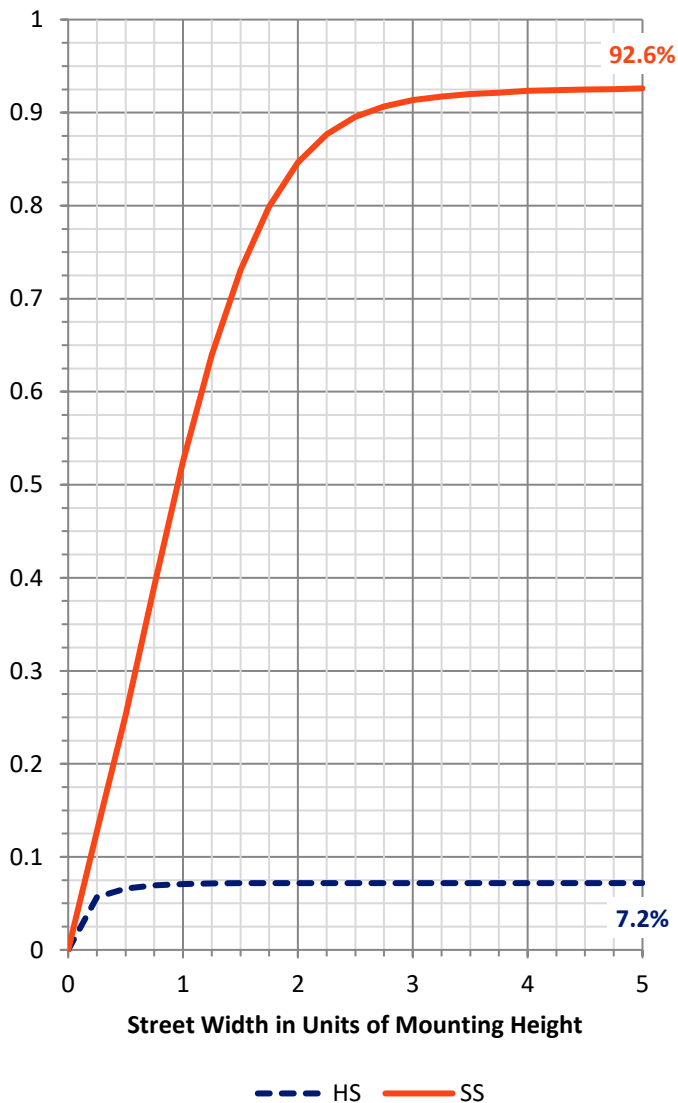
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.6	0.0	2190.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	28141.4	0.0	28141.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	30332.0	0.0	30332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	1.5
10°-20°	1017.7	3.4
20°-30°	1640.0	5.4
30°-40°	2851.5	9.4
40°-50°	4712.0	15.5
50°-60°	7279.0	24.0
60°-70°	8888.7	29.3
70°-80°	3373.5	11.1
80°-90°	112.6	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°	30332.0	100.0
0°-180°	30332.0	100.0

Coefficient of Utilization



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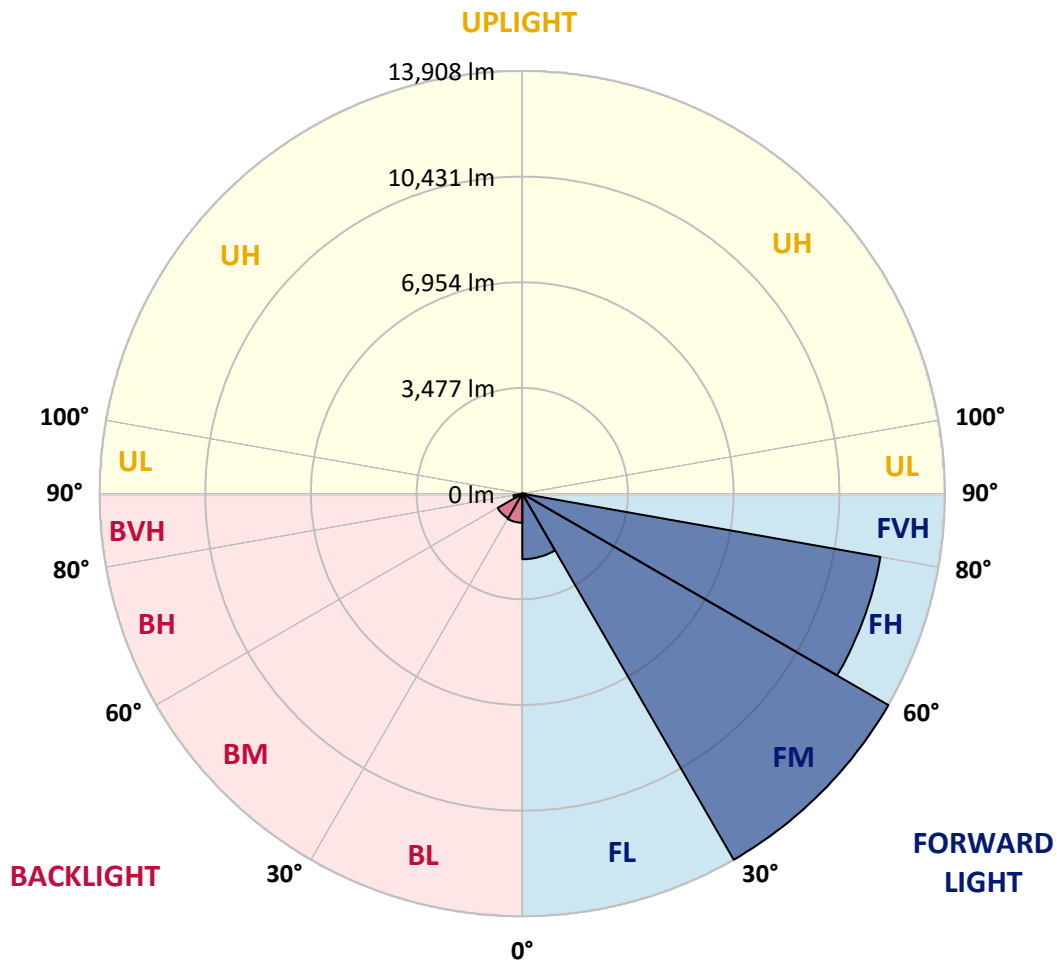
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2157.8	7.1			
FM (30°-60°)	13907.7	45.9			
FH (60°-80°)	11964.9	39.4			G4/12000
FVH (80°-90°)	111.0	0.4			G2/225
BL (0°-30°)	957.0	3.2	B2/1000		
BM (30°-60°)	934.8	3.1	B1/1000		
BH (60°-80°)	297.2	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°	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7
2.5°	5302.4	5304.6	5317.4	5349.5	5398.8	5439.5	5473.7	5529.4	5568.0	5572.2	5585.1
5°	4936.2	4910.5	4936.2	5019.7	5094.7	5208.2	5347.4	5486.6	5610.8	5619.4	5679.3
7.5°	4525.0	4546.5	4587.1	4672.8	4814.1	4987.6	5188.9	5437.3	5672.9	5694.3	5812.1
10°	4107.4	4154.6	4220.9	4351.6	4548.6	4773.5	5047.6	5403.1	5771.4	5801.4	6004.8
12.5°	3722.0	3743.4	3824.8	4000.4	4244.5	4561.4	4940.5	5383.8	5880.6	5917.0	6210.4
15°	3426.4	3454.3	3524.9	3683.4	3955.4	4362.3	4852.7	5377.4	5987.7	6039.1	6416.0
17.5°	3370.8	3387.9	3417.9	3524.9	3762.7	4203.8	4773.5	5375.2	6090.5	6152.6	6606.6
20°	3599.9	3584.9	3554.9	3544.2	3674.9	4081.7	4715.6	5392.4	6189.0	6259.7	6807.9
22.5°	4173.8	4193.1	4017.5	3809.8	3766.9	4062.5	4707.1	5473.7	6345.3	6428.9	7032.8
25°	5392.4	5244.6	4970.5	4473.6	4098.9	4180.3	4803.4	5666.5	6527.4	6619.5	7236.2
27.5°	6739.4	6694.4	6268.2	5450.2	4752.0	4428.7	4974.8	5814.2	6587.3	6681.6	7351.9
30°	8062.8	8116.4	7628.1	6724.4	5700.7	4889.1	5135.4	5869.9	6640.9	6739.4	7499.6
32.5°	9289.9	9354.2	8925.9	8030.7	6818.6	5685.7	5411.6	6086.2	6865.7	6966.4	7745.9
35°	10255.8	10264.3	9941.0	9227.8	8039.3	6653.7	6009.1	6465.3	7169.8	7287.6	8007.2
37.5°	11142.4	11129.5	10750.5	10135.8	9056.5	7615.3	6760.8	6902.1	7516.8	7638.8	8384.1
40°	11799.8	11808.4	11686.3	11108.1	10005.2	8504.0	7356.1	7311.2	8099.2	8289.8	8932.3
42.5°	12238.8	12318.1	12378.0	12084.6	11198.0	9598.3	8270.6	8187.0	9110.0	9268.5	9707.5
45°	12594.3	12735.6	13035.5	13020.5	12343.7	10941.1	9525.5	9354.2	10542.7	10711.9	10694.8
47.5°	12853.4	12996.9	13493.7	13793.6	13420.9	12243.1	11103.8	10956.0	12253.8	12438.0	11784.8
50°	12986.2	13157.5	13791.4	14371.8	14262.6	13498.0	12902.7	12911.3	14320.4	14498.1	13048.3
52.5°	12675.7	12898.4	13949.9	14995.0	15207.0	14699.4	14588.1	14870.7	16159.9	16312.0	14189.7
55°	11684.2	11964.7	13733.6	15526.1	16301.3	16117.1	16502.6	16933.0	18170.8	18269.3	15361.2
57.5°	11056.7	11354.4	13095.4	15977.9	17616.2	17898.9	18509.2	18824.0	20246.0	20496.5	16706.0
60°	10527.7	10761.2	12570.8	16074.3	18952.5	20078.9	20672.1	20997.7	22807.2	22970.0	18185.8
62.5°	9647.6	9915.3	11684.2	15401.8	19624.9	21824.3	23053.5	22907.9	24788.1	24901.7	19093.8
65°	8232.0	8255.6	9885.3	13712.2	18931.1	22957.1	24726.0	24115.7	25734.7	25811.8	19023.2
67.5°	6144.0	6371.0	7604.6	10778.3	15990.8	21989.2	25267.9	24147.8	25137.2	24923.1	17513.4
70°	3957.5	4131.0	5154.7	7473.9	11530.0	18350.7	23471.1	22492.4	22062.0	21586.6	14335.4
72.5°	1826.7	2049.4	3062.4	4270.2	6837.9	13071.9	19053.1	18273.6	15879.4	14705.9	9112.2
75°	796.6	852.3	1511.9	2252.9	3205.9	6912.8	12562.2	11343.7	7172.0	6550.9	3647.0
77.5°	486.1	522.5	792.4	1207.8	1259.2	2634.1	6767.2	4949.1	2216.5	1955.2	989.4
80°	329.8	370.5	576.1	631.7	430.4	734.5	2539.8	1321.3	447.6	428.3	212.0
82.5°	160.6	203.4	426.2	353.4	186.3	235.6	738.8	282.7	130.6	122.1	75.0
85°	23.6	40.7	239.9	231.3	83.5	55.7	130.6	70.7	45.0	42.8	34.3
87.5°	0.0	0.0	81.4	36.4	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°	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7	5548.7
2.5°	5591.5	5602.2	5561.5	5503.7	5441.6	5379.5	5291.7	5212.5	5165.4	5193.2	5124.7
5°	5692.2	5683.6	5576.5	5400.9	5167.5	4887.0	4608.6	4370.9	4293.8	4178.1	4165.3
7.5°	5831.4	5807.8	5580.8	5178.2	4651.4	4124.6	3610.6	3270.1	3075.2	2910.3	2914.6
10°	6026.3	5957.7	5531.6	4786.3	3919.0	3124.5	2469.2	2019.5	1824.6	1762.5	1713.2
12.5°	6227.6	6094.8	5394.5	4257.4	3051.7	2135.1	1501.2	1227.1	1107.2	1068.6	1064.3
15°	6407.4	6197.6	5154.7	3621.3	2218.6	1364.2	1023.6	933.7	918.7	920.9	918.7
17.5°	6585.2	6279.0	4822.7	2946.7	1507.6	978.7	880.2	858.8	865.2	873.7	871.6
20°	6733.0	6296.1	4398.7	2248.6	1066.5	858.8	826.6	822.3	828.8	835.2	835.2
22.5°	6893.6	6308.9	3895.4	1556.9	871.6	798.8	781.7	781.7	790.2	798.8	800.9
25°	7013.5	6238.3	3293.7	1117.9	768.8	741.0	732.4	734.5	743.1	747.4	745.3
27.5°	7032.8	6039.1	2655.5	856.6	698.1	670.3	661.7	670.3	659.6	666.0	661.7
30°	7049.9	5786.4	2008.8	721.7	633.9	591.1	578.2	565.4	556.8	546.1	543.9
32.5°	7103.4	5488.7	1466.9	648.9	573.9	526.8	496.8	460.4	432.6	424.0	421.9
35°	7127.0	5131.1	1077.2	591.1	520.4	469.0	415.5	364.1	323.4	308.4	319.1
37.5°	7216.9	4784.2	835.2	548.2	473.3	409.0	340.5	276.3	237.7	229.1	233.4
40°	7401.1	4407.3	700.3	511.8	432.6	353.4	269.8	207.7	182.0	173.5	171.3
42.5°	7696.6	4032.5	623.2	477.6	391.9	297.7	212.0	162.8	141.3	134.9	134.9
45°	8056.4	3672.7	569.6	441.2	349.1	239.9	167.0	130.6	117.8	113.5	113.5
47.5°	8529.7	3357.9	524.7	404.7	302.0	190.6	134.9	113.5	104.9	107.1	109.2
50°	9009.4	3124.5	475.4	364.1	248.4	156.3	115.6	100.7	98.5	100.7	100.7
52.5°	9371.3	2987.4	409.0	308.4	194.9	130.6	102.8	94.2	92.1	87.8	87.8
55°	9859.6	2957.4	325.5	250.6	154.2	109.2	92.1	85.7	79.2	75.0	72.8
57.5°	10487.0	2991.7	250.6	194.9	119.9	89.9	81.4	70.7	62.1	53.5	53.5
60°	10876.8	2914.6	194.9	149.9	87.8	72.8	62.1	51.4	40.7	34.3	32.1
62.5°	10752.6	2589.1	154.2	111.4	62.1	53.5	40.7	34.3	23.6	17.1	15.0
65°	10112.3	2090.1	124.2	77.1	45.0	32.1	21.4	21.4	10.7	2.1	0.0
67.5°	8850.9	1548.3	98.5	51.4	25.7	15.0	10.7	6.4	0.0	0.0	0.0
70°	7204.1	1117.9	77.1	32.1	15.0	10.7	4.3	2.1	0.0	0.0	0.0
72.5°	4574.3	640.3	60.0	19.3	10.7	4.3	0.0	0.0	0.0	0.0	0.0
75°	1768.9	250.6	40.7	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	501.1	117.8	23.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	130.6	51.4	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.1	21.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.4	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)