

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: P650899

Luminaire Tested: **GALN-SA5C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17282.6 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

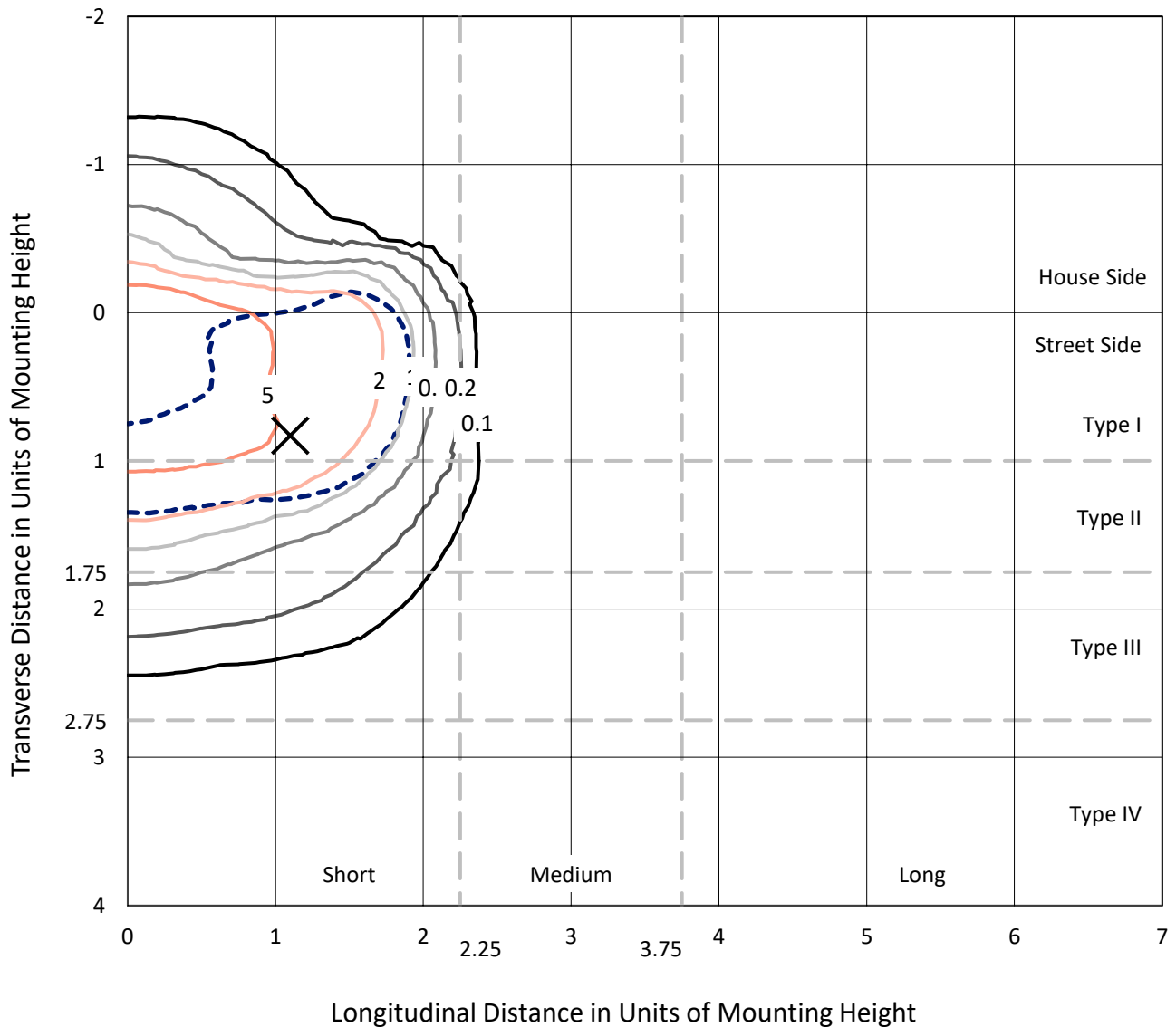
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

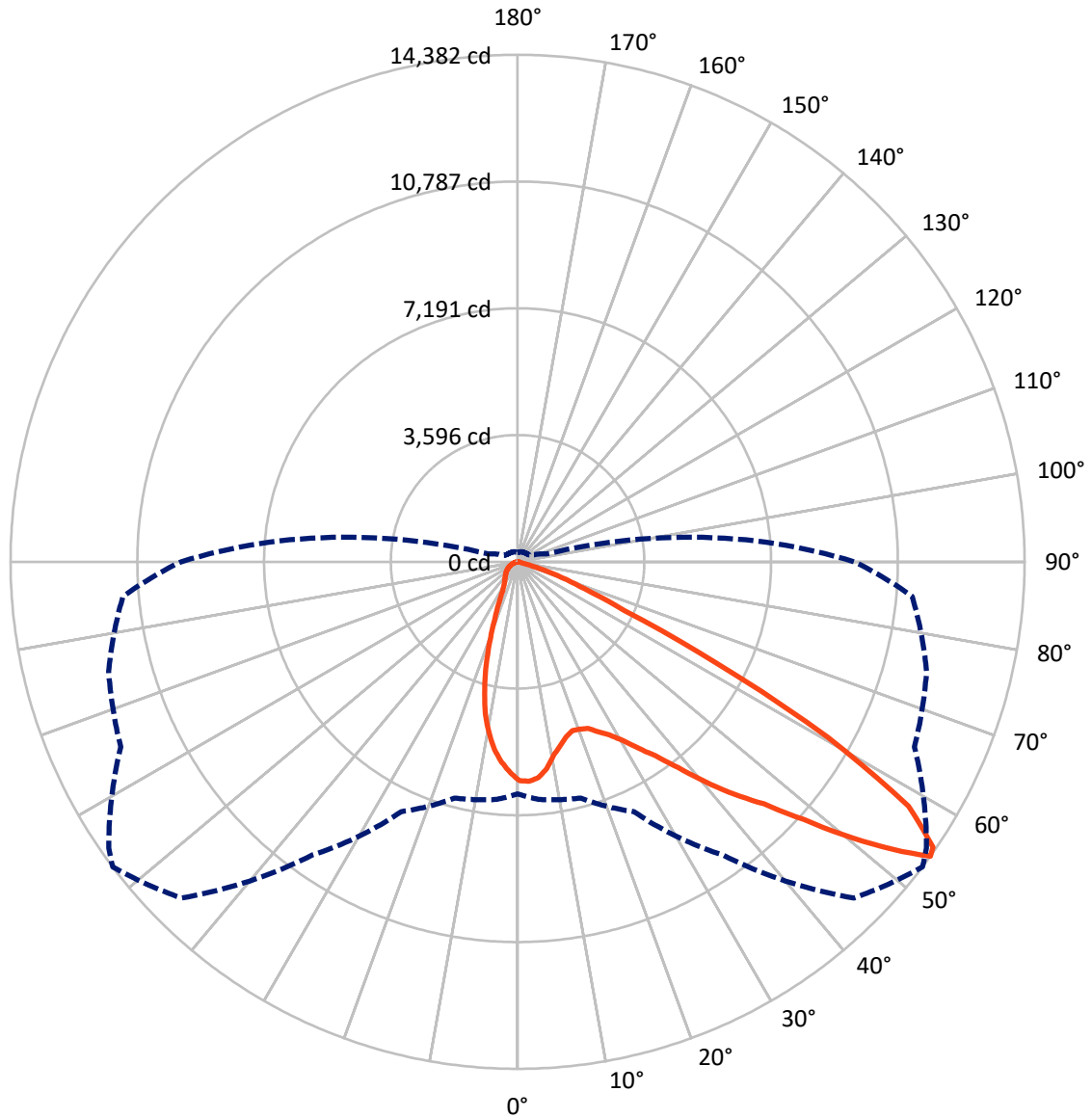
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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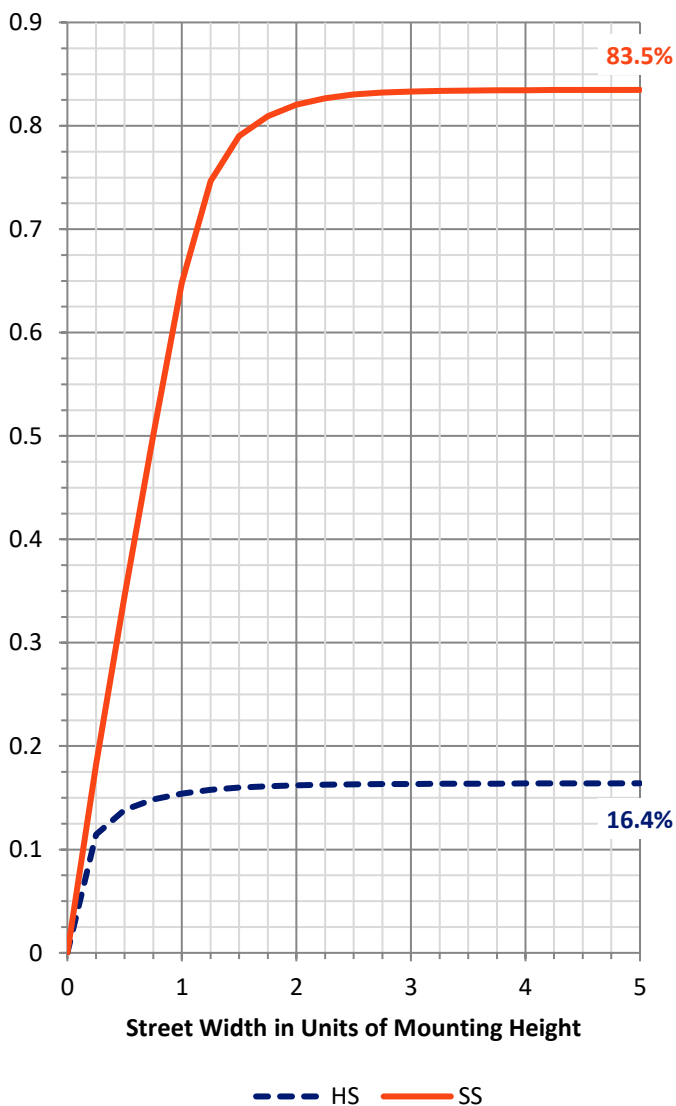
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2859.5	0.0	2859.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14423.1	0.0	14423.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	17282.6	0.0	17282.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.6	3.1
10°-20°	1221.1	7.1
20°-30°	1735.4	10.0
30°-40°	2678.2	15.5
40°-50°	4199.2	24.3
50°-60°	4877.9	28.2
60°-70°	1843.2	10.7
70°-80°	175.3	1.0
80°-90°	19.7	0.1
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°	17282.6	100.0
0°-180°	17282.6	100.0

Coefficient of Utilization



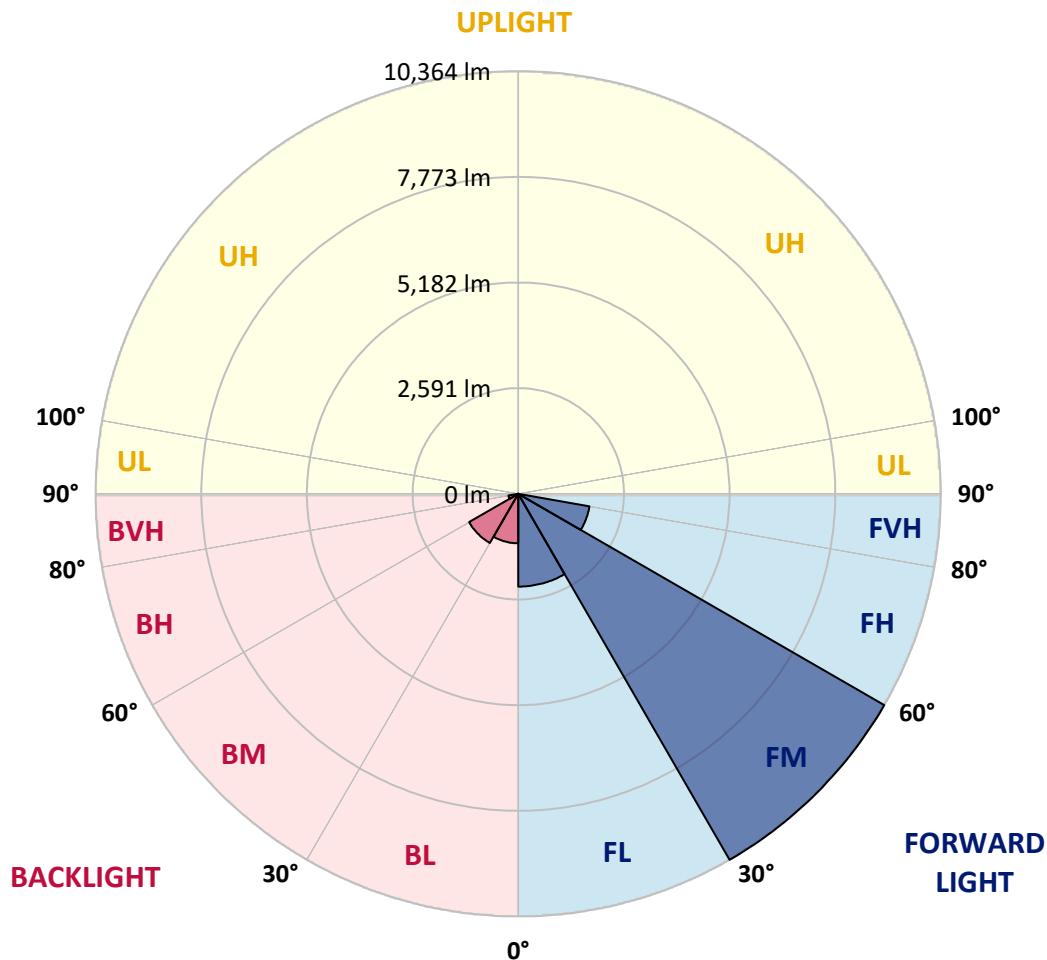
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2275.7	13.2			
FM (30°-60°)	10363.8	60.0			
FH (60°-80°)	1773.5	10.3			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	1213.4	7.0	B3/2500		
BM (30°-60°)	1391.5	8.1	B2/2500		
BH (60°-80°)	245.0	1.4	B1/500		G1/500
BVH (80°-90°)	9.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6
2.5°	6175.4	6120.6	6175.4	6181.9	6220.5	6255.9	6233.3	6284.9	6255.9	6223.7	6214.1
5°	5676.3	5750.4	5753.6	5869.5	5843.8	6056.3	6149.6	6123.9	6281.7	6272.0	6249.5
7.5°	5228.8	5199.8	5238.5	5373.7	5544.4	5789.0	5924.3	5921.1	6146.4	6307.4	6291.4
10°	4813.5	4810.3	4890.8	4997.0	5141.9	5399.5	5586.2	5679.6	6030.5	6275.2	6310.6
12.5°	4533.3	4520.5	4607.4	4694.4	4923.0	5122.5	5360.8	5405.9	5808.4	6162.5	6220.5
15°	4349.8	4378.8	4385.2	4552.7	4697.6	4961.6	5148.3	5241.7	5705.3	6072.4	6294.5
17.5°	4317.6	4356.3	4359.5	4497.9	4652.5	4874.6	5038.9	5164.4	5618.4	6117.4	6297.7
20°	4382.0	4359.5	4378.8	4465.7	4617.1	4829.5	5067.8	5109.7	5589.5	6140.0	6333.2
22.5°	4565.5	4559.1	4510.8	4581.7	4687.9	4910.1	5135.4	5199.8	5673.1	6255.9	6362.2
25°	4768.4	4803.8	4758.7	4749.0	4823.1	5042.0	5341.5	5425.2	5953.3	6465.2	6452.3
27.5°	5148.3	5112.9	5112.9	5067.8	5048.5	5154.7	5563.6	5702.1	6265.5	6735.7	6555.3
30°	5512.2	5550.8	5521.8	5537.9	5409.1	5399.5	5879.2	6049.8	6819.3	7147.7	6774.3
32.5°	6088.5	6037.0	6085.2	6043.4	5872.8	5698.9	6307.4	6484.5	7489.0	7621.1	7102.7
35°	6568.2	6545.7	6751.7	6745.3	6468.4	6297.7	6761.4	7025.4	7955.9	8187.7	7489.0
37.5°	7250.8	7209.0	7443.9	7556.6	7308.7	7054.4	7411.7	7717.6	8390.6	8641.7	7885.0
40°	7952.7	8059.0	8374.4	8561.2	8297.2	7959.1	8207.1	8300.4	8680.3	8937.9	8155.5
42.5°	8841.3	8995.8	9317.9	9478.8	9456.3	9089.3	9015.2	9012.0	8889.6	8854.2	8355.2
45°	9694.5	9636.6	10132.5	10483.4	10766.7	10660.4	9794.4	9697.7	9221.2	8979.8	8406.6
47.5°	10068.0	10048.7	10386.8	11011.4	11977.4	12109.3	10927.7	10554.2	9781.5	9507.8	8686.8
50°	9585.0	9684.9	10019.8	10712.0	12193.1	13200.8	12318.6	11816.3	10435.0	10151.7	9350.1
52.5°	8007.4	8075.0	8393.8	9272.8	11459.0	13844.8	13651.5	13361.8	11636.0	11166.0	10505.9
54°	6584.3	6764.6	6938.5	7820.7	10151.7	13487.4	14382.4	14160.3	12418.5	12009.5	11233.6
55°	5734.3	5840.6	5966.1	6845.1	9247.0	12882.0	14298.8	14318.0	12943.2	12273.6	11723.0
57.5°	4188.9	4262.9	4134.1	4523.7	6349.3	10460.9	13078.5	13600.1	13651.5	12669.6	12022.4
60°	3200.4	3232.6	3087.7	3148.9	3947.4	7180.0	10116.3	10744.2	12315.4	11072.6	10183.9
62.5°	2482.4	2488.9	2485.6	2591.9	2720.6	4224.3	6326.8	6883.8	8490.4	7862.5	6916.0
65°	1828.8	1799.8	1851.3	2173.3	2321.4	2656.3	3332.4	3738.1	4613.8	3895.8	2785.1
67.5°	1184.9	1194.5	1246.0	1616.3	1989.8	2038.1	2050.9	2018.7	2022.0	1114.0	698.7
70°	711.6	727.6	711.6	914.4	1423.1	1461.7	1336.2	1304.0	1017.4	264.0	260.8
72.5°	421.8	399.2	357.4	392.8	592.4	708.4	637.5	634.3	399.2	154.6	154.6
75°	177.1	161.0	132.0	119.2	157.8	151.3	151.3	135.2	106.2	103.0	96.6
77.5°	35.4	35.4	25.7	29.0	38.6	45.1	54.7	54.7	64.4	64.4	61.1
80°	0.0	3.2	9.7	19.3	29.0	41.9	48.3	48.3	54.7	54.7	45.1
82.5°	0.0	3.2	9.7	19.3	25.7	38.6	48.3	48.3	54.7	57.9	48.3
85°	0.0	3.2	9.7	16.1	25.7	32.2	32.2	29.0	22.5	19.3	12.9
87.5°	0.0	0.0	3.2	6.5	3.2	6.5	6.5	6.5	6.5	6.5	6.5
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°	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6	6207.6
2.5°	6236.6	6233.3	6156.1	6030.5	6001.5	5895.3	5882.4	5818.0	5853.4	5734.3	5721.4
5°	6185.1	6146.4	6053.0	5972.5	5737.6	5570.1	5438.1	5277.1	5183.8	5199.8	5138.7
7.5°	6259.1	6159.3	5995.1	5715.0	5428.4	5135.4	4977.7	4649.3	4530.1	4353.0	4327.3
10°	6181.9	6107.8	5853.4	5389.8	4993.8	4572.0	4201.7	3837.9	3561.0	3441.9	3416.1
12.5°	6175.4	6046.6	5621.6	5106.5	4533.3	3928.1	3390.3	2936.4	2662.7	2508.1	2472.7
15°	6075.6	5921.1	5360.8	4668.6	3876.5	3123.1	2537.1	2099.2	1890.0	1799.8	1825.6
17.5°	6085.2	5853.4	5100.0	4204.9	3229.4	2292.4	1732.2	1506.8	1452.1	1474.6	1474.6
20°	6075.6	5702.1	4784.4	3670.5	2472.7	1590.5	1271.8	1191.3	1226.7	1297.6	1281.4
22.5°	6024.1	5631.3	4494.7	3107.0	1819.2	1178.4	1020.6	1023.8	1078.6	1165.5	1184.9
25°	6062.7	5473.5	4127.6	2537.1	1326.5	940.2	885.4	907.9	965.9	1030.3	1043.2
27.5°	6033.8	5360.8	3744.6	1970.5	969.2	808.1	804.9	830.7	856.5	904.7	904.7
30°	6066.0	5257.8	3367.8	1464.9	798.5	740.5	727.6	747.0	772.7	782.4	779.2
32.5°	6185.1	5180.5	2933.2	1094.7	705.1	676.2	676.2	676.2	672.9	685.8	689.0
35°	6445.8	5193.4	2550.0	846.8	644.0	621.4	611.7	598.9	592.4	598.9	602.1
37.5°	6729.2	5187.0	2154.0	721.2	598.9	579.5	557.0	537.7	534.5	540.9	531.3
40°	6854.7	5248.1	1787.0	647.1	557.0	534.5	499.0	483.0	486.2	492.6	486.2
42.5°	7025.4	5267.4	1548.7	589.2	518.4	483.0	460.4	441.1	437.9	447.6	444.3
45°	7022.2	5157.9	1297.6	557.0	483.0	444.3	415.4	399.2	399.2	405.7	408.9
47.5°	7228.2	5141.9	1114.0	528.1	457.2	418.6	383.2	370.3	367.0	367.0	360.6
50°	7708.0	5367.3	972.4	495.9	425.0	389.6	360.6	344.5	331.6	325.2	321.9
52.5°	8644.9	6069.2	862.9	457.2	389.6	360.6	334.9	321.9	305.9	289.8	286.5
54°	9552.9	6793.6	856.5	425.0	360.6	341.3	318.7	312.3	293.0	270.5	264.0
55°	9961.8	7215.4	879.0	399.2	341.3	328.4	309.1	302.7	283.3	257.6	254.3
57.5°	10299.8	7379.6	866.1	331.6	309.1	305.9	289.8	280.1	257.6	222.2	215.7
60°	8290.7	5579.8	621.4	293.0	283.3	276.9	264.0	257.6	228.6	190.0	186.7
62.5°	5238.5	3210.0	396.0	257.6	247.9	238.3	222.2	215.7	190.0	151.3	141.7
65°	2231.3	1329.7	267.3	228.6	212.5	196.4	183.5	173.8	151.3	112.7	109.5
67.5°	579.5	473.3	222.2	199.7	177.1	154.6	144.9	128.8	103.0	77.3	74.1
70°	260.8	238.3	186.7	167.4	141.7	119.2	106.2	90.2	67.6	51.6	48.3
72.5°	154.6	151.3	141.7	125.6	106.2	90.2	77.3	61.1	45.1	29.0	29.0
75°	96.6	93.4	96.6	87.0	74.1	67.6	57.9	41.9	25.7	12.9	12.9
77.5°	57.9	57.9	57.9	54.7	51.6	51.6	41.9	25.7	12.9	3.2	3.2
80°	45.1	45.1	48.3	45.1	45.1	45.1	35.4	19.3	6.5	0.0	0.0
82.5°	45.1	48.3	54.7	51.6	45.1	38.6	32.2	19.3	6.5	0.0	0.0
85°	12.9	9.7	16.1	22.5	32.2	29.0	22.5	16.1	6.5	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	3.2	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)