

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: P648639

Luminaire Tested: **GALN-SA9B-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33092.7 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

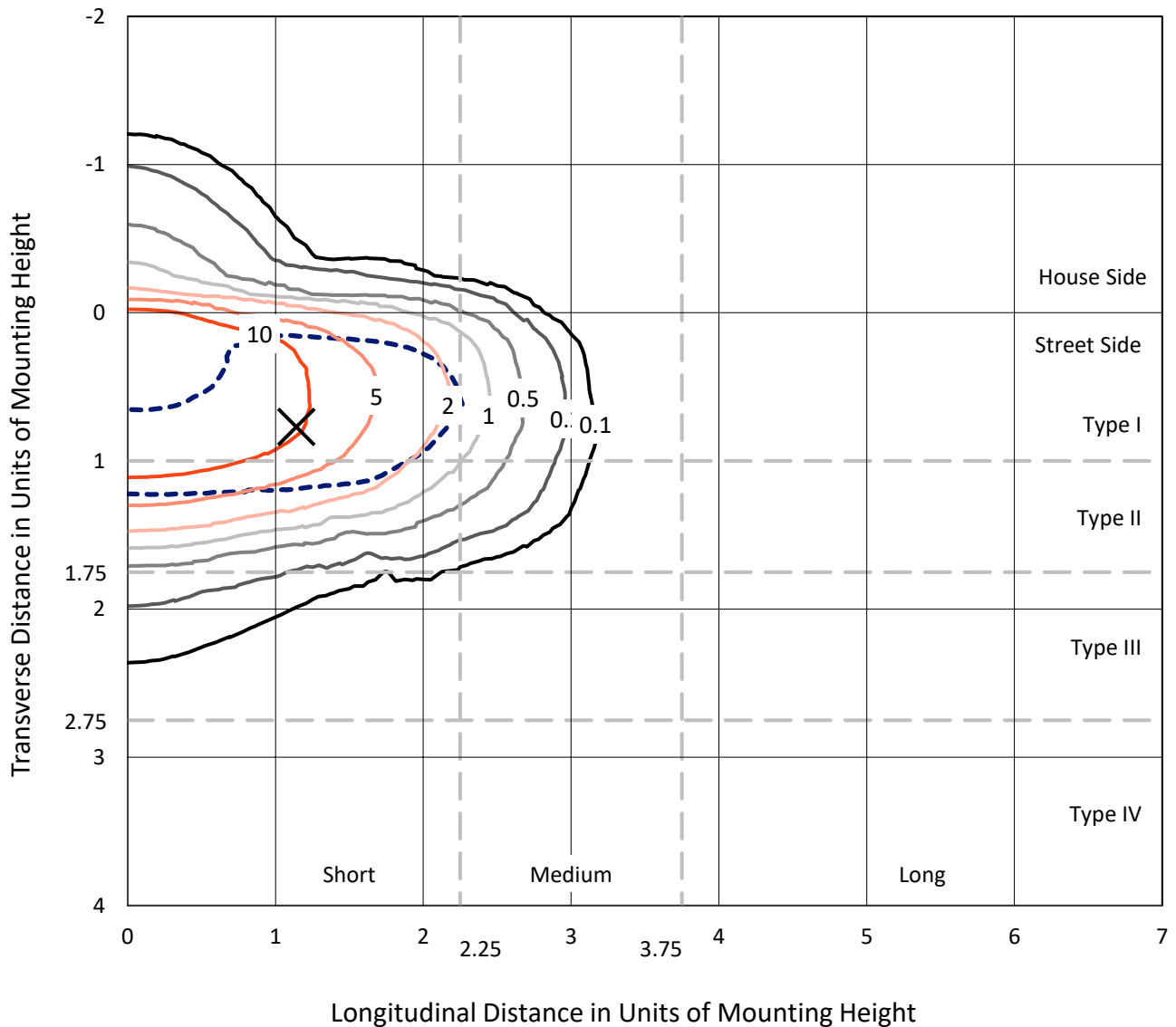
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

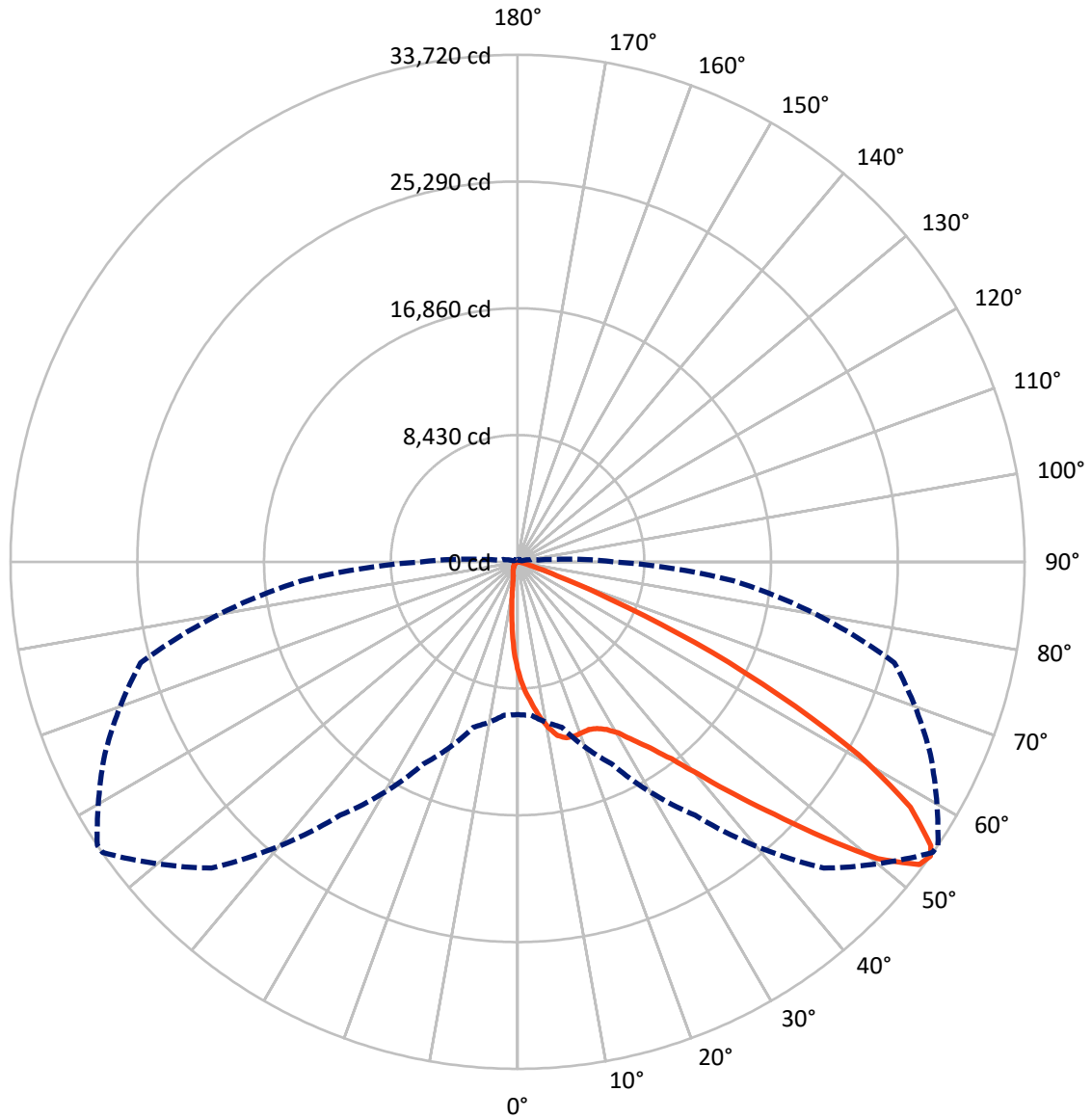
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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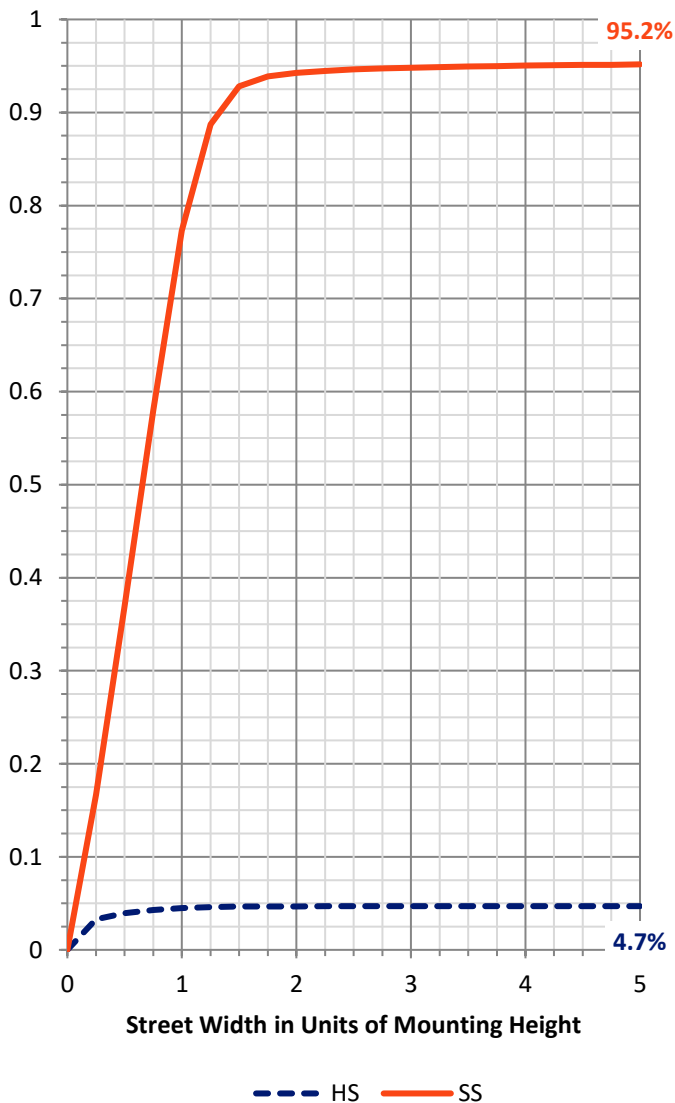
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.9	0.0	1564.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	31527.8	0.0	31527.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	33092.7	0.0	33092.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.7	2.0
10°-20°	1756.3	5.3
20°-30°	3041.8	9.2
30°-40°	5250.6	15.9
40°-50°	8936.8	27.0
50°-60°	8844.0	26.7
60°-70°	4036.6	12.2
70°-80°	518.4	1.6
80°-90°	58.4	0.2
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°	33092.7	100.0
0°-180°	33092.7	100.0

Coefficient of Utilization



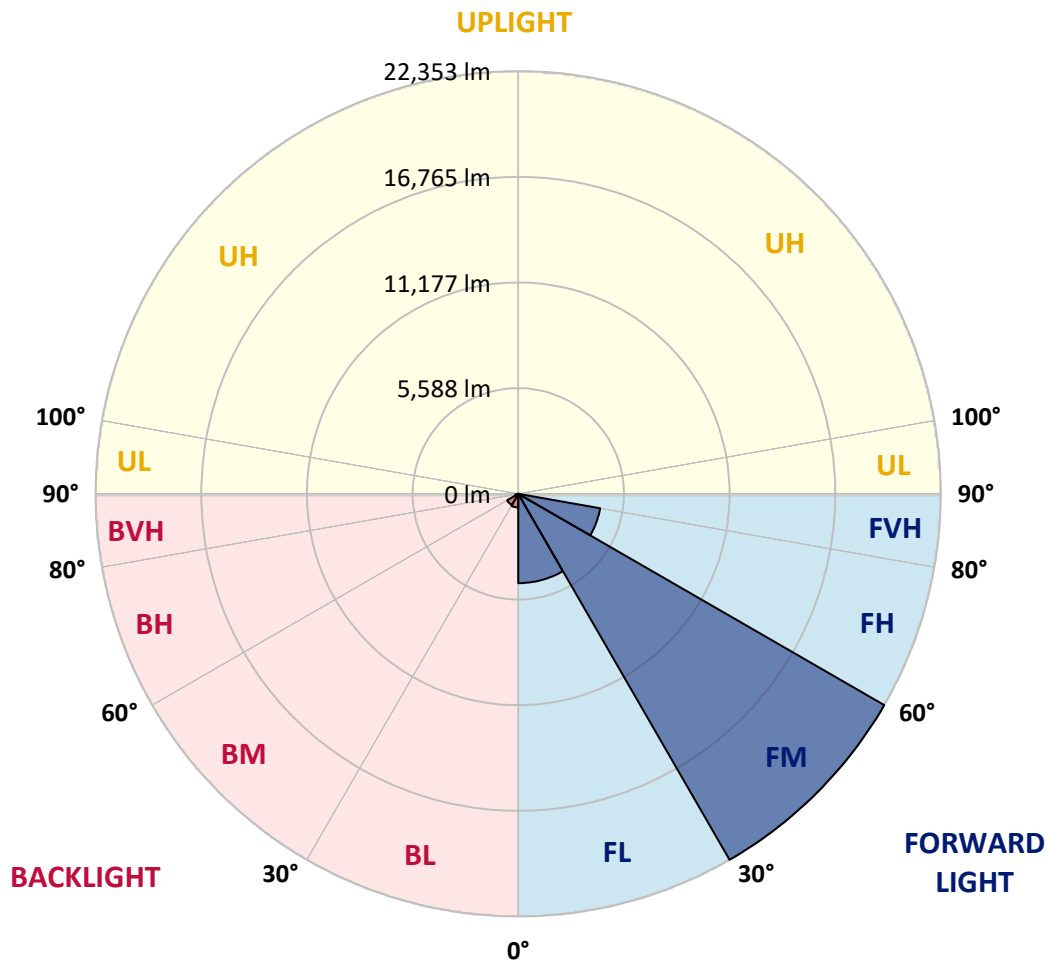
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4724.1	14.3			
FM (30°-60°)	22353.3	67.5			
FH (60°-80°)	4398.3	13.3			G2/5000
FVH (80°-90°)	52.2	0.2			G1/100
BL (0°-30°)	723.7	2.2	B2/1000		
BM (30°-60°)	678.2	2.0	B1/1000		
BH (60°-80°)	156.7	0.5	B1/500		G1/500
BVH (80°-90°)	6.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2
2.5°	9343.8	9279.1	9189.8	9120.5	8957.5	8723.1	8475.3	8475.3	8236.4	7903.8	7564.3
5°	10777.2	10734.8	10647.7	10469.1	10286.0	9957.8	9459.9	9372.8	8946.4	8343.6	7709.5
7.5°	11359.9	11380.0	11384.5	11337.6	11250.5	10926.8	10433.4	10373.1	9692.1	8883.8	7899.3
10°	10801.7	10900.0	10996.0	11190.2	11464.8	11543.0	11263.9	11201.4	10531.6	9430.9	8104.7
12.5°	9971.2	10024.7	10078.4	10384.2	10935.7	11567.6	11860.0	11857.8	11290.7	9975.7	8365.9
15°	9584.9	9631.8	9636.3	9772.5	10250.3	11170.1	12114.6	12148.1	12032.0	10647.7	8647.2
17.5°	9665.4	9703.2	9672.0	9705.5	9955.5	10732.6	12085.5	12197.2	12632.5	11293.0	8901.8
20°	10190.0	10263.6	10143.1	10049.3	10125.3	10616.5	11987.3	12143.6	13056.8	11922.6	9133.9
22.5°	11132.2	11172.4	11020.6	10763.8	10629.9	10859.8	11960.6	12114.6	13418.5	12438.3	9267.9
25°	12179.3	12165.9	11998.5	11710.5	11429.1	11351.0	12136.9	12275.3	13717.6	12902.7	9308.1
27.5°	13226.4	13266.7	12985.4	12628.1	12291.0	12087.8	12532.1	12634.8	14054.8	13431.9	9357.2
30°	14443.3	14378.5	14101.7	13693.1	13306.9	13023.2	13168.4	13197.5	14519.2	14132.9	9486.7
32.5°	16026.3	15847.6	15537.3	14822.8	14545.9	14066.0	14101.7	14137.4	15084.0	14827.3	9643.0
35°	18174.1	18165.1	17557.9	16595.6	15921.3	15325.2	15168.9	15198.0	15939.1	15858.8	9989.0
37.5°	20759.5	20795.3	20103.1	19134.2	17892.8	16946.2	16624.6	16629.0	17238.6	17283.2	10516.0
40°	22865.0	22958.7	22545.7	21891.5	20665.8	19185.5	18645.2	18596.1	19065.0	19009.1	11268.4
42.5°	23771.5	23858.6	24012.6	24240.3	23566.0	22344.8	21069.9	21136.9	21279.7	20889.0	12112.4
45°	23327.1	23465.6	24070.7	25477.3	26111.3	25700.5	24180.1	23945.6	23340.5	22932.0	12960.8
47.5°	21476.3	21813.4	22824.8	25166.9	27386.2	28774.9	27689.9	27379.5	25403.6	24423.4	13501.1
50°	18433.1	18453.2	19862.0	22856.1	26725.3	30715.1	31273.3	31041.1	27325.9	25260.7	13773.4
52.5°	13362.7	13802.5	15093.0	18560.4	23863.0	30420.4	33557.3	33461.3	29308.6	25689.4	14166.4
54°	10158.7	10243.6	11391.2	14831.7	20574.3	28801.7	33698.0	33720.3	30293.2	25948.3	14398.6
55°	8327.9	8124.7	9330.4	12634.8	18330.4	27370.5	33238.0	33345.2	30735.2	26082.3	14570.5
57.5°	3947.4	3949.6	4871.7	6664.6	11480.5	21253.0	30427.1	30806.7	30784.3	26312.2	15099.7
60°	1998.3	2011.7	2214.8	3076.6	5671.0	14128.5	25157.9	26062.2	28415.5	26345.8	15273.8
62.5°	1397.7	1382.1	1348.6	1480.3	2386.7	7180.3	18730.1	19516.0	24142.1	25070.9	14720.2
65°	1196.7	1163.2	1069.4	1049.4	1205.7	2860.1	11665.8	12947.4	18433.1	21708.4	13143.8
67.5°	1022.6	1009.2	924.3	873.0	852.9	1245.8	6019.3	6693.6	12599.1	15604.3	9955.5
70°	868.5	861.8	810.5	745.7	689.9	745.7	2232.7	2766.3	7021.8	8401.6	4697.6
72.5°	705.6	712.2	721.1	638.5	580.5	529.2	953.4	1109.7	2938.2	3003.0	1643.3
75°	618.5	611.8	611.8	555.9	484.5	393.0	524.7	564.9	899.7	835.0	381.8
77.5°	435.3	419.8	491.2	457.7	404.1	279.1	299.2	317.0	372.9	319.3	178.6
80°	301.4	301.4	314.8	410.8	363.9	203.2	183.1	196.5	221.0	189.8	102.7
82.5°	169.7	174.1	205.4	218.8	212.1	136.2	120.6	122.8	147.4	129.5	64.8
85°	20.1	33.5	118.3	116.1	87.1	60.3	66.9	69.2	91.5	80.4	38.0
87.5°	2.3	4.5	24.6	31.2	22.3	24.6	24.6	24.6	31.2	35.7	26.8
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°	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2	7352.2
2.5°	7381.3	7211.6	6807.5	6338.6	6039.4	5552.7	5141.9	4845.0	4771.3	4628.4	4670.8
5°	7372.3	7019.6	6195.7	5324.9	4396.2	3704.1	3188.3	2781.9	2603.3	2485.0	2402.4
7.5°	7376.8	6825.3	5503.6	4117.1	3007.4	2328.7	1850.9	1603.0	1437.8	1368.6	1377.5
10°	7390.2	6606.6	4699.8	3049.9	2029.5	1504.8	1212.3	1094.0	1038.2	1029.3	1027.1
12.5°	7421.4	6367.7	3931.8	2264.0	1420.0	1094.0	982.4	942.2	924.3	924.3	917.6
15°	7454.9	6104.2	3293.2	1683.4	1094.0	940.0	888.6	868.5	857.4	857.4	855.1
17.5°	7454.9	5800.5	2697.1	1306.1	942.2	864.0	823.9	797.1	788.2	788.2	785.9
20°	7408.0	5447.8	2168.0	1051.6	855.1	792.6	752.4	723.4	712.2	707.8	705.6
22.5°	7245.1	4976.7	1725.9	904.2	783.7	730.1	678.7	645.3	636.3	631.9	634.1
25°	6954.8	4445.2	1366.4	794.8	719.0	654.2	609.5	585.0	576.1	576.1	578.2
27.5°	6655.7	3889.3	1082.9	712.2	640.8	582.7	547.0	531.3	529.2	535.8	538.1
30°	6378.8	3331.2	877.4	645.3	571.6	522.4	497.9	493.4	493.4	495.6	497.9
32.5°	6070.7	2842.2	734.5	587.2	515.8	473.3	459.9	459.9	464.4	464.4	468.9
35°	5876.4	2422.4	645.3	531.3	473.3	437.6	428.7	430.9	437.6	446.5	451.0
37.5°	5771.5	2087.6	587.2	486.7	433.2	408.6	399.6	404.1	419.8	435.3	437.6
40°	5780.4	1835.3	540.3	448.7	401.9	375.1	368.4	381.8	397.5	413.0	415.3
42.5°	5878.7	1647.7	495.6	404.1	375.1	337.2	334.9	348.3	355.0	370.6	372.9
45°	5994.8	1511.5	448.7	357.2	326.0	292.5	294.7	305.8	314.8	339.4	343.8
47.5°	6030.5	1417.8	395.2	303.6	267.9	256.7	259.0	265.7	283.5	305.8	308.1
50°	6070.7	1359.7	343.8	256.7	227.7	225.5	227.7	232.2	243.4	252.3	250.1
52.5°	6242.6	1357.5	301.4	223.2	194.3	198.7	200.9	198.7	189.8	176.4	171.9
54°	6403.4	1364.1	281.3	207.7	178.6	185.3	183.1	171.9	149.6	136.2	129.5
55°	6532.9	1370.9	270.1	196.5	169.7	171.9	174.1	151.8	122.8	109.4	104.9
57.5°	6787.4	1355.2	243.4	171.9	149.6	140.6	138.4	100.5	66.9	58.0	53.6
60°	6660.1	1223.5	221.0	147.4	127.2	113.8	93.8	55.8	33.5	24.6	24.6
62.5°	6160.0	1038.2	196.5	120.6	104.9	87.1	49.1	31.2	15.7	8.9	6.7
65°	5510.3	873.0	176.4	96.0	82.6	55.8	26.8	20.1	6.7	0.0	0.0
67.5°	4097.0	647.5	149.6	75.9	62.5	35.7	17.9	11.2	2.3	0.0	0.0
70°	1897.8	395.2	127.2	58.0	44.6	26.8	13.4	6.7	0.0	0.0	0.0
72.5°	544.8	247.8	104.9	42.4	31.2	22.3	11.2	4.5	2.3	0.0	0.0
75°	189.8	198.7	78.1	31.2	24.6	15.7	8.9	4.5	2.3	0.0	0.0
77.5°	113.8	160.7	49.1	26.8	20.1	13.4	8.9	4.5	2.3	2.3	0.0
80°	64.8	107.2	31.2	22.3	17.9	11.2	6.7	4.5	2.3	2.3	0.0
82.5°	35.7	51.4	24.6	20.1	15.7	11.2	6.7	4.5	2.3	2.3	2.3
85°	29.0	26.8	20.1	17.9	13.4	8.9	6.7	2.3	0.0	0.0	0.0
87.5°	22.3	17.9	17.9	17.9	13.4	8.9	6.7	2.3	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)