

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: P455636

Luminaire Tested: **GALN-SA6D-750-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455636
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-SA6D-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 35916 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

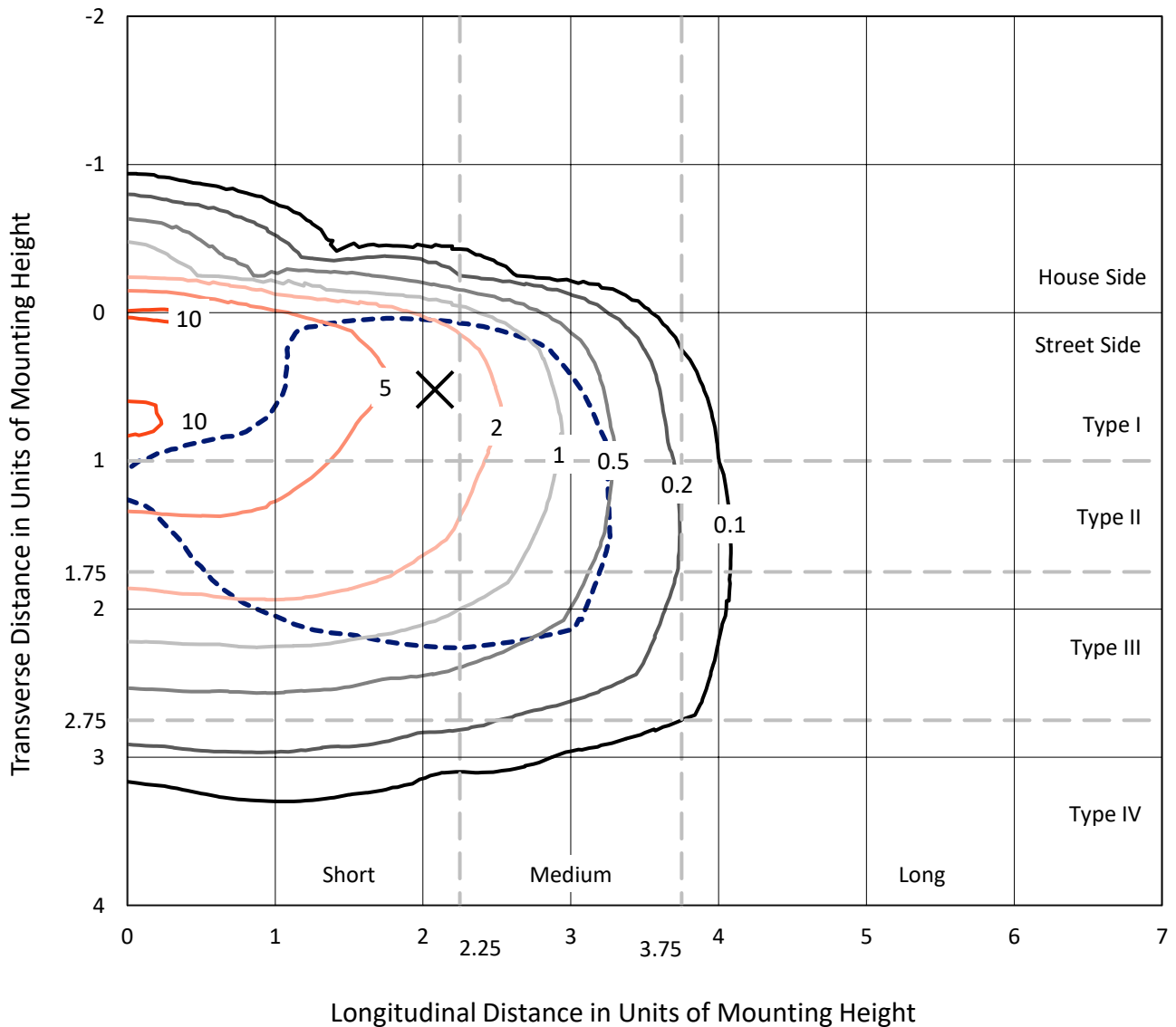
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

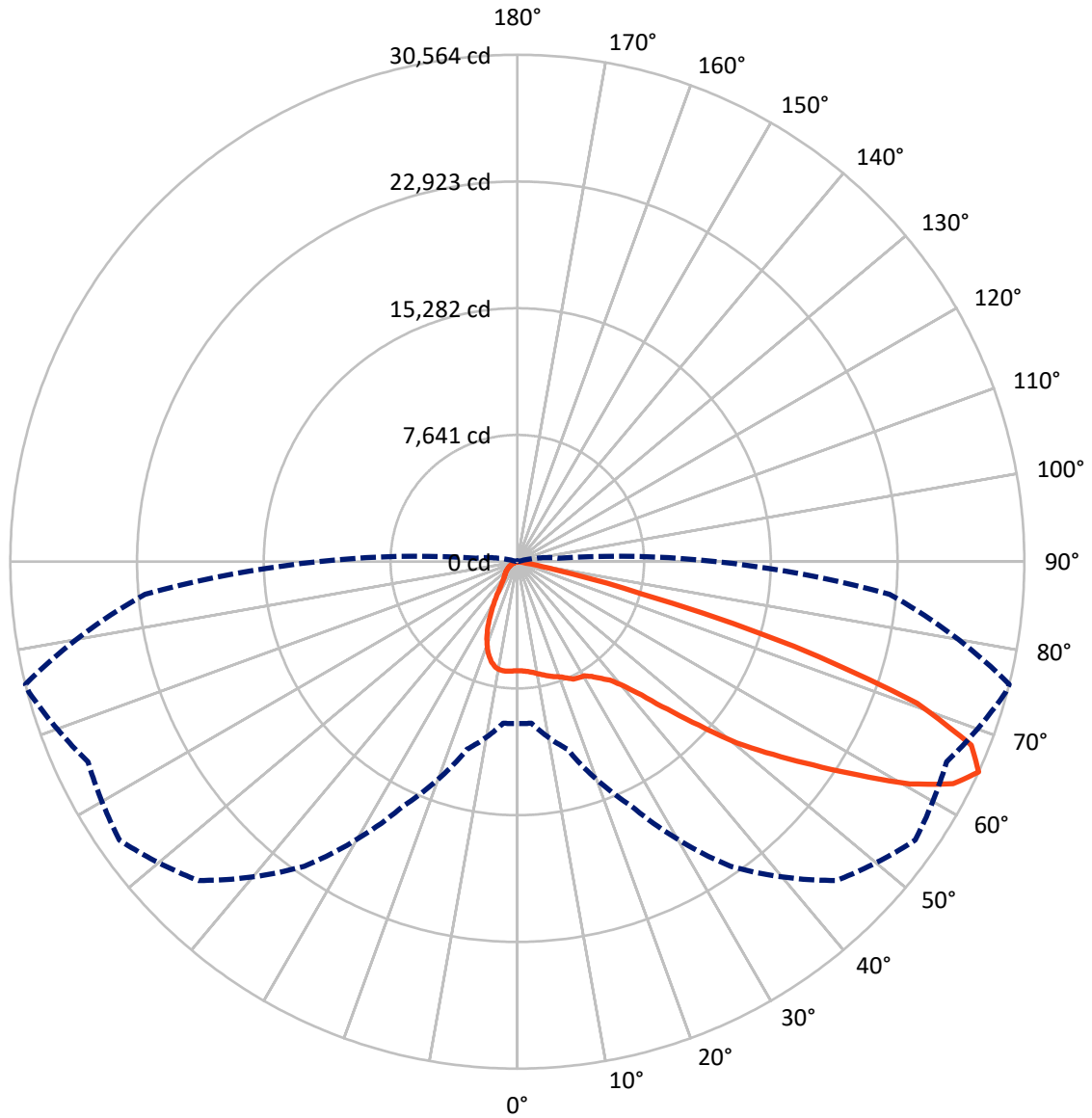
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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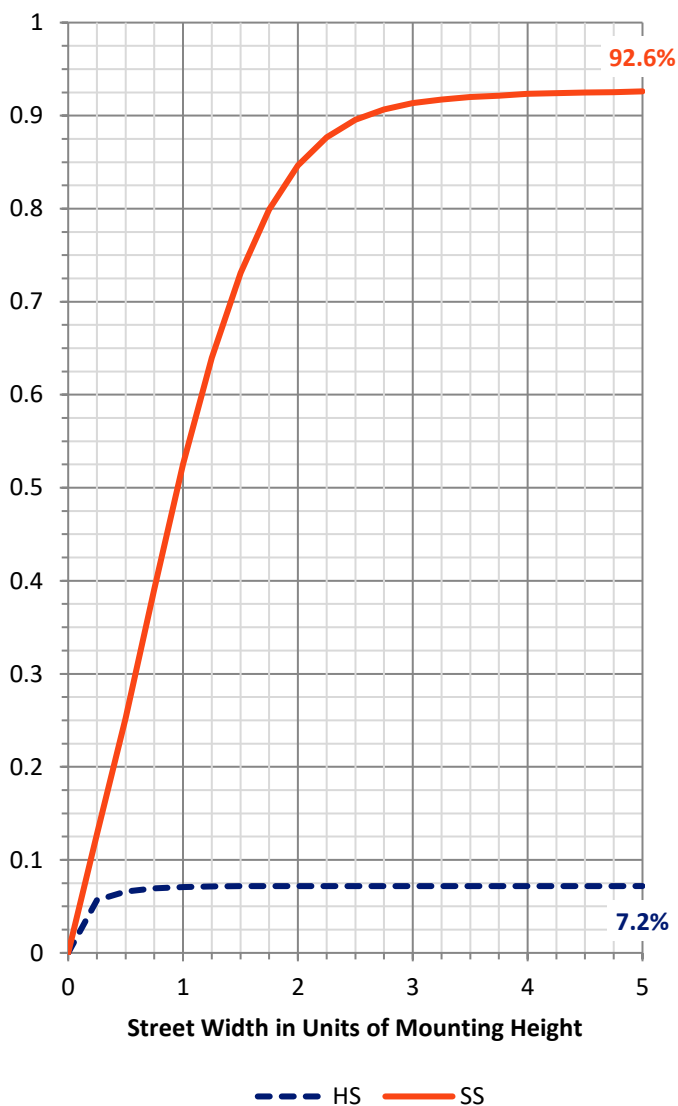
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2593.9	0.0	2593.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	33322.2	0.0	33322.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	35916.0	0.0	35916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.2	1.5
10°-20°	1205.1	3.4
20°-30°	1941.9	5.4
30°-40°	3376.5	9.4
40°-50°	5579.4	15.5
50°-60°	8619.0	24.0
60°-70°	10525.1	29.3
70°-80°	3994.5	11.1
80°-90°	133.3	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°	35916.0	100.0
0°-180°	35916.0	100.0

Coefficient of Utilization



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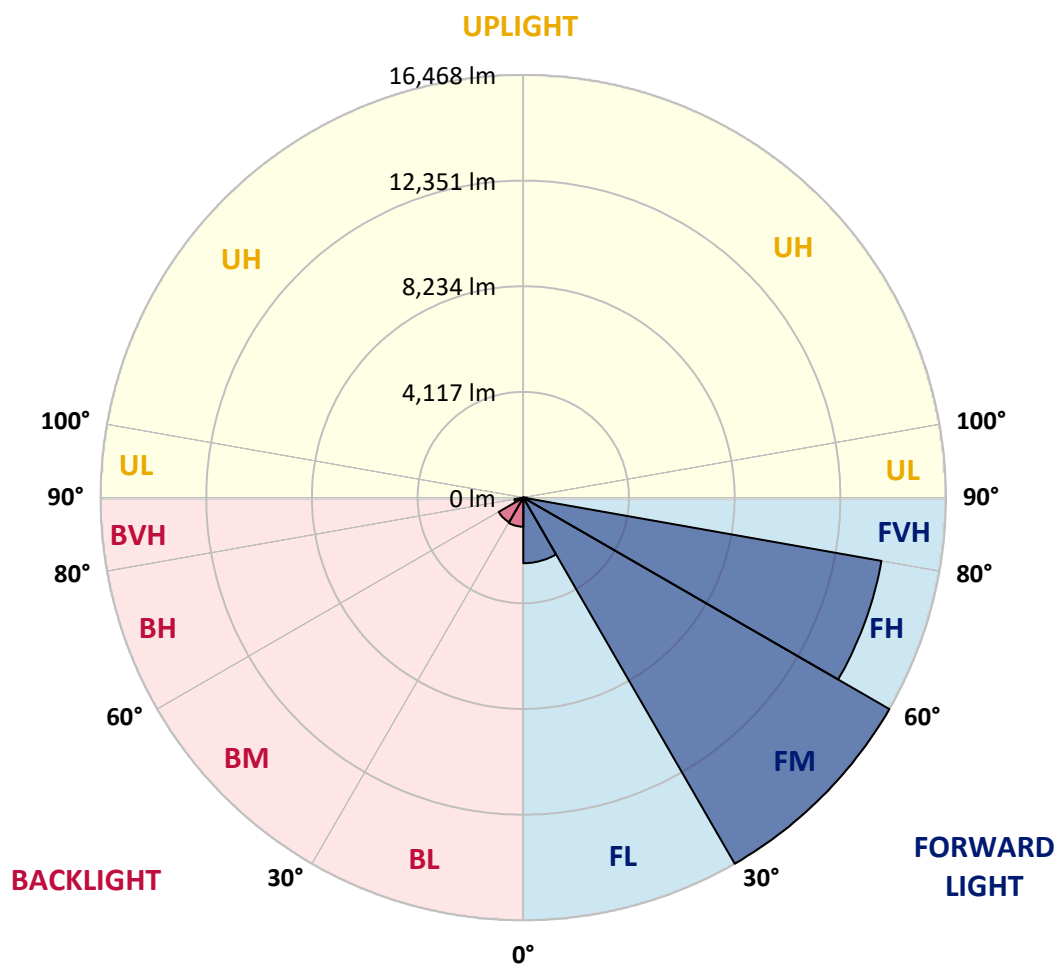
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2555.0	7.1			
FM	(30°-60°)	16468.0	45.9			
FH	(60°-80°)	14167.6	39.4			G5
FVH	(80°-90°)	131.5	0.4			G2/225
BL	(0°-30°)	1133.2	3.2	B3/2500		
BM	(30°-60°)	1106.9	3.1	B2/2500		
BH	(60°-80°)	352.0	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2
2.5°	6278.6	6281.1	6296.3	6334.4	6392.7	6440.9	6481.4	6547.4	6593.0	6598.1	6613.3
5°	5845.0	5814.5	5845.0	5943.8	6032.6	6167.0	6331.8	6496.6	6643.7	6653.9	6724.9
7.5°	5358.1	5383.4	5431.6	5533.1	5700.4	5905.8	6144.2	6438.3	6717.3	6742.6	6882.1
10°	4863.6	4919.4	4998.0	5152.7	5386.0	5652.2	5976.8	6397.8	6833.9	6869.4	7110.3
12.5°	4407.2	4432.5	4528.9	4736.8	5025.9	5401.2	5850.0	6374.9	6963.2	7006.3	7353.7
15°	4057.2	4090.2	4173.9	4361.5	4683.6	5165.4	5746.1	6367.3	7090.0	7150.9	7597.2
17.5°	3991.3	4011.6	4047.1	4173.9	4455.3	4977.7	5652.2	6364.8	7211.7	7285.3	7822.9
20°	4262.6	4244.9	4209.4	4196.7	4351.4	4833.2	5583.8	6385.1	7328.4	7412.1	8061.2
22.5°	4942.2	4965.0	4757.1	4511.1	4460.4	4810.4	5573.6	6481.4	7513.5	7612.4	8327.5
25°	6385.1	6210.1	5885.5	5297.2	4853.5	4949.8	5687.7	6709.7	7729.0	7838.1	8568.4
27.5°	7980.1	7926.8	7422.2	6453.5	5626.9	5244.0	5890.6	6884.6	7800.0	7911.6	8705.3
30°	9547.2	9610.6	9032.4	7962.3	6750.2	5789.2	6080.8	6950.5	7863.4	7980.1	8880.3
32.5°	11000.2	11076.2	10569.1	9509.1	8073.9	6732.5	6407.9	7206.7	8129.7	8248.9	9171.9
35°	12143.8	12154.0	11771.0	10926.6	9519.3	7878.6	7115.4	7655.5	8489.8	8629.2	9481.2
37.5°	13193.6	13178.4	12729.6	12001.8	10723.8	9017.2	8005.4	8172.8	8900.6	9045.1	9927.5
40°	13972.1	13982.2	13837.7	13153.0	11847.1	10069.5	8710.4	8657.1	9590.3	9816.0	10576.7
42.5°	14491.9	14585.8	14656.8	14309.4	13259.5	11365.3	9793.1	9694.3	10787.2	10974.8	11494.6
45°	14912.9	15080.2	15435.2	15417.5	14616.2	12955.3	11279.1	11076.2	12483.6	12683.9	12663.6
47.5°	15219.7	15389.6	15977.9	16332.9	15891.7	14497.0	13148.0	12973.0	14509.7	14727.8	13954.3
50°	15376.9	15579.8	16330.4	17017.6	16888.2	15983.0	15278.0	15288.2	16956.7	17167.2	15450.5
52.5°	15009.2	15272.9	16518.0	17755.5	18006.5	17405.5	17273.7	17608.4	19134.9	19315.0	16802.0
55°	13835.2	14167.4	16261.9	18384.3	19302.3	19084.2	19540.7	20050.3	21516.0	21632.7	18189.1
57.5°	13092.2	13444.7	15506.2	18919.4	20859.3	21194.0	21916.7	22289.4	23973.2	24269.9	19781.5
60°	12465.9	12742.2	14885.0	19033.5	22441.6	23775.4	24477.8	24863.2	27006.0	27198.7	21533.8
62.5°	11423.6	11740.6	13835.2	18237.3	23237.8	25842.0	27297.6	27125.1	29351.5	29485.9	22608.9
65°	9747.5	9775.4	11705.1	16236.5	22416.2	27183.5	29278.0	28555.3	30472.4	30563.6	22525.3
67.5°	7275.1	7543.9	9004.5	12762.5	18934.6	26037.3	29919.6	28593.4	29764.9	29511.3	20737.5
70°	4686.1	4891.5	6103.6	8849.8	13652.6	21729.0	27792.1	26633.2	26123.5	25560.6	16974.5
72.5°	2163.0	2426.7	3626.2	5056.3	8096.7	15478.3	22560.8	21637.7	18802.7	17413.1	10789.7
75°	943.3	1009.2	1790.3	2667.6	3796.0	8185.5	14874.8	13432.0	8492.3	7756.9	4318.4
77.5°	575.6	618.7	938.2	1430.2	1491.0	3119.0	8013.0	5860.2	2624.5	2315.2	1171.5
80°	390.5	438.7	682.1	748.1	509.7	869.8	3007.4	1564.6	530.0	507.2	251.0
82.5°	190.2	240.9	504.6	418.4	220.6	278.9	874.8	334.7	154.7	144.5	88.8
85°	27.9	48.2	284.0	273.9	98.9	65.9	154.7	83.7	53.3	50.7	40.6
87.5°	0.0	0.0	96.4	43.1	10.1	10.1	17.8	17.8	20.3	17.8	20.3
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°	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2
2.5°	6620.9	6633.6	6585.4	6516.9	6443.4	6369.9	6265.9	6172.1	6116.3	6149.2	6068.1
5°	6740.1	6729.9	6603.1	6395.2	6118.8	5786.6	5457.0	5175.5	5084.2	4947.3	4932.1
7.5°	6904.9	6877.0	6608.2	6131.5	5507.7	4883.9	4275.3	3872.1	3641.4	3446.1	3451.2
10°	7135.7	7054.5	6549.9	5667.4	4640.5	3699.7	2923.7	2391.2	2160.5	2086.9	2028.6
12.5°	7374.0	7216.8	6387.6	5041.1	3613.5	2528.2	1777.6	1453.0	1311.0	1265.3	1260.3
15°	7587.0	7338.5	6103.6	4288.0	2627.1	1615.3	1212.1	1105.6	1087.8	1090.4	1087.8
17.5°	7797.5	7434.9	5710.6	3489.2	1785.2	1158.8	1042.2	1016.8	1024.5	1034.6	1032.1
20°	7972.5	7455.2	5208.5	2662.6	1262.8	1016.8	978.8	973.7	981.3	989.0	989.0
22.5°	8162.6	7470.4	4612.6	1843.5	1032.1	945.8	925.6	925.6	935.7	945.8	948.4
25°	8304.7	7386.7	3900.0	1323.7	910.3	877.4	867.2	869.8	879.9	885.0	882.4
27.5°	8327.5	7150.9	3144.4	1014.3	826.7	793.7	783.6	793.7	781.0	788.6	783.6
30°	8347.8	6851.7	2378.6	854.6	750.6	699.9	684.7	669.4	659.3	646.6	644.1
32.5°	8411.2	6499.2	1737.0	768.3	679.6	623.8	588.3	545.2	512.2	502.1	499.5
35°	8439.0	6075.7	1275.5	699.9	616.2	555.3	491.9	431.1	382.9	365.2	377.8
37.5°	8545.5	5664.9	989.0	649.2	560.4	484.3	403.2	327.1	281.5	271.3	276.4
40°	8763.6	5218.6	829.2	606.0	512.2	418.4	319.5	246.0	215.5	205.4	202.9
42.5°	9113.6	4774.9	737.9	565.5	464.0	352.5	251.0	192.7	167.4	159.8	159.8
45°	9539.6	4348.8	674.5	522.4	413.3	284.0	197.8	154.7	139.5	134.4	134.4
47.5°	10100.0	3976.1	621.3	479.3	357.5	225.7	159.8	134.4	124.3	126.8	129.3
50°	10668.0	3699.7	562.9	431.1	294.1	185.1	136.9	119.2	116.6	119.2	119.2
52.5°	11096.5	3537.4	484.3	365.2	230.8	154.7	121.7	111.6	109.0	104.0	104.0
55°	11674.7	3501.9	385.4	296.7	182.6	129.3	109.0	101.4	93.8	88.8	86.2
57.5°	12417.7	3542.5	296.7	230.8	142.0	106.5	96.4	83.7	73.5	63.4	63.4
60°	12879.2	3451.2	230.8	177.5	104.0	86.2	73.5	60.9	48.2	40.6	38.0
62.5°	12732.1	3065.7	182.6	131.9	73.5	63.4	48.2	40.6	27.9	20.3	17.8
65°	11973.9	2474.9	147.1	91.3	53.3	38.0	25.4	25.4	12.7	2.5	0.0
67.5°	10480.3	1833.4	116.6	60.9	30.4	17.8	12.7	7.6	0.0	0.0	0.0
70°	8530.3	1323.7	91.3	38.0	17.8	12.7	5.1	2.5	0.0	0.0	0.0
72.5°	5416.4	758.2	71.0	22.8	12.7	5.1	0.0	0.0	0.0	0.0	0.0
75°	2094.5	296.7	48.2	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	593.4	139.5	27.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	154.7	60.9	15.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.5	25.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.1	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	2.5	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)