

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: P454630

Luminaire Tested: **GALN-SA5D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454630
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-SA5D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 28907 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

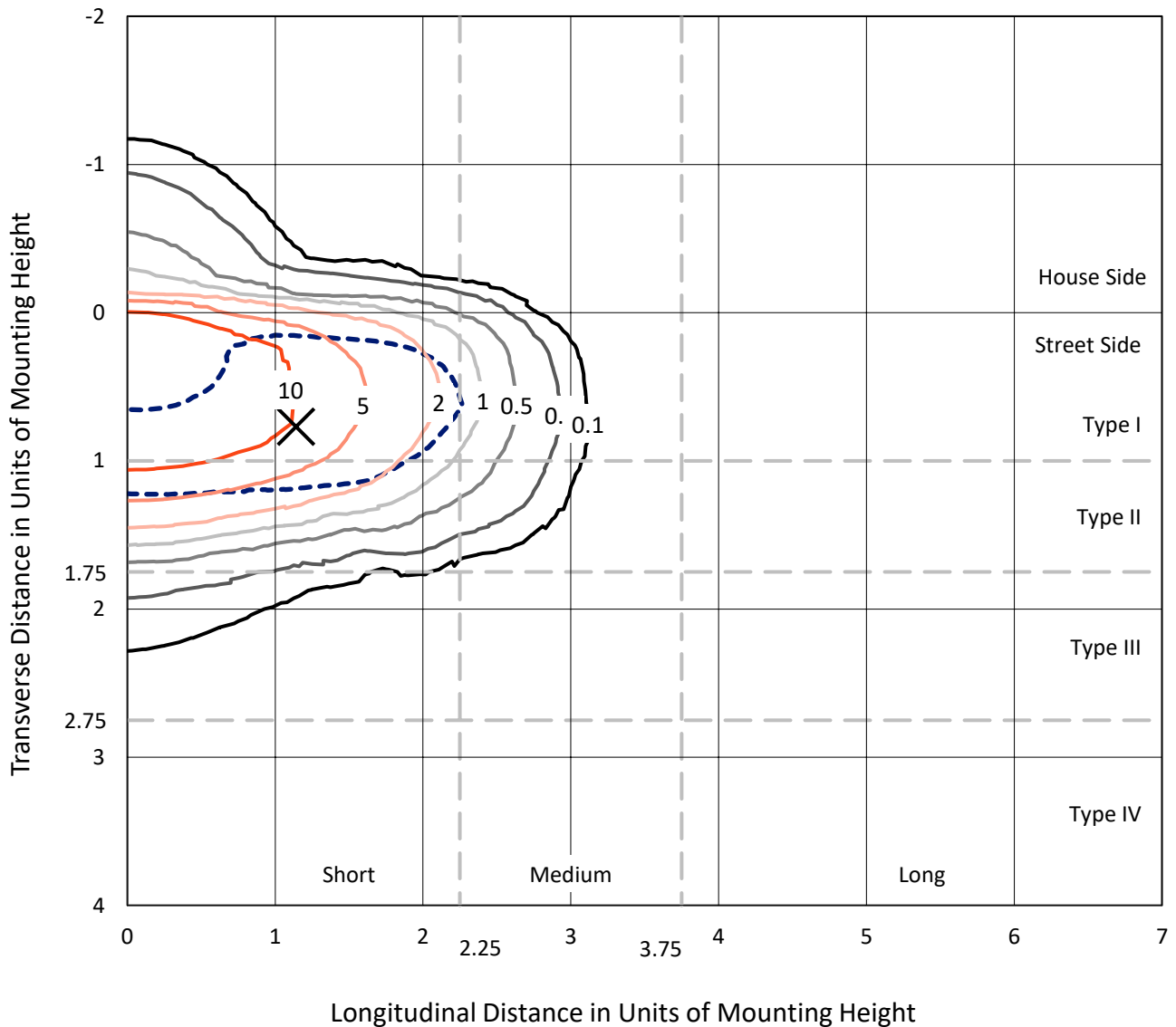
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

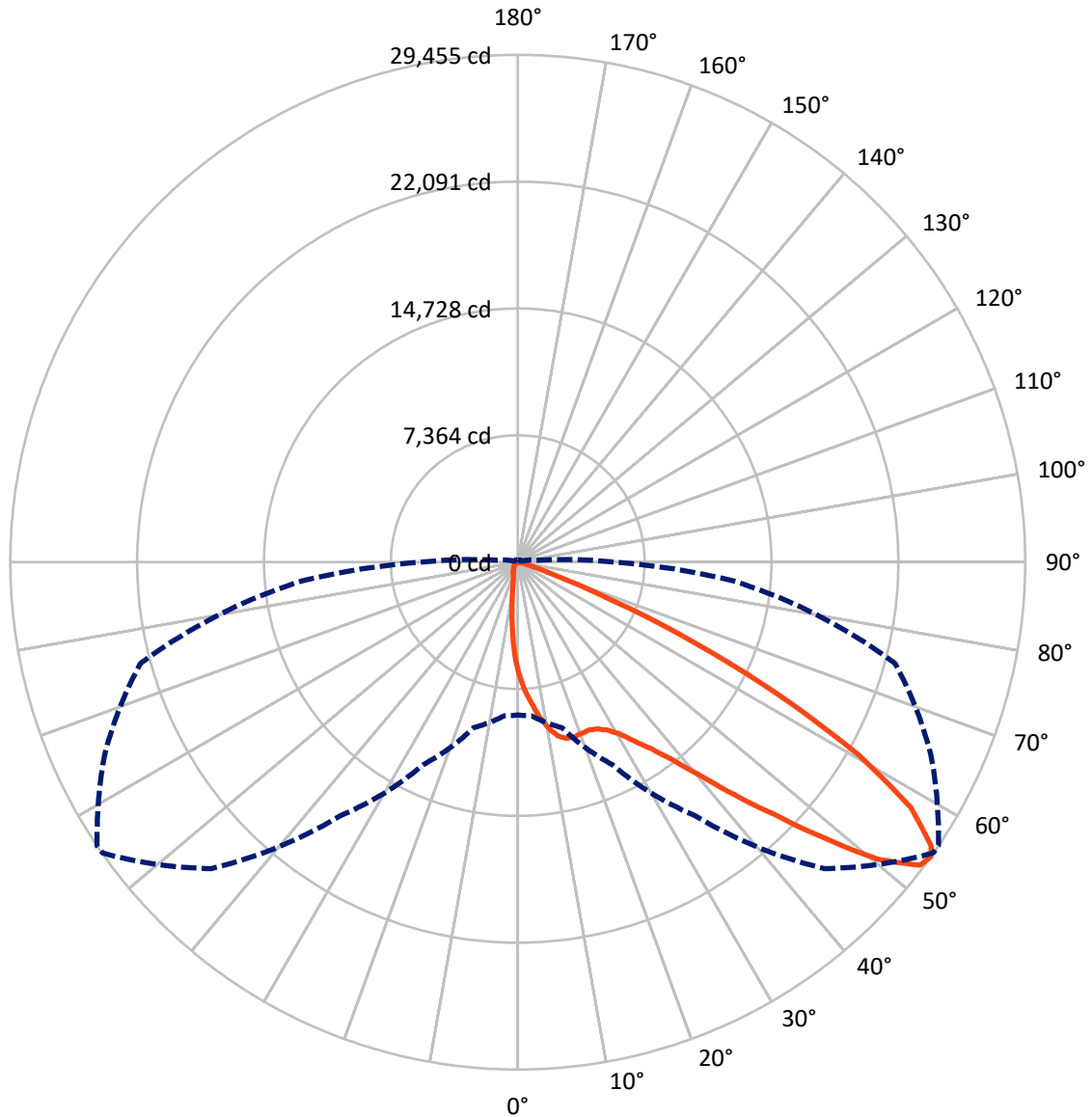
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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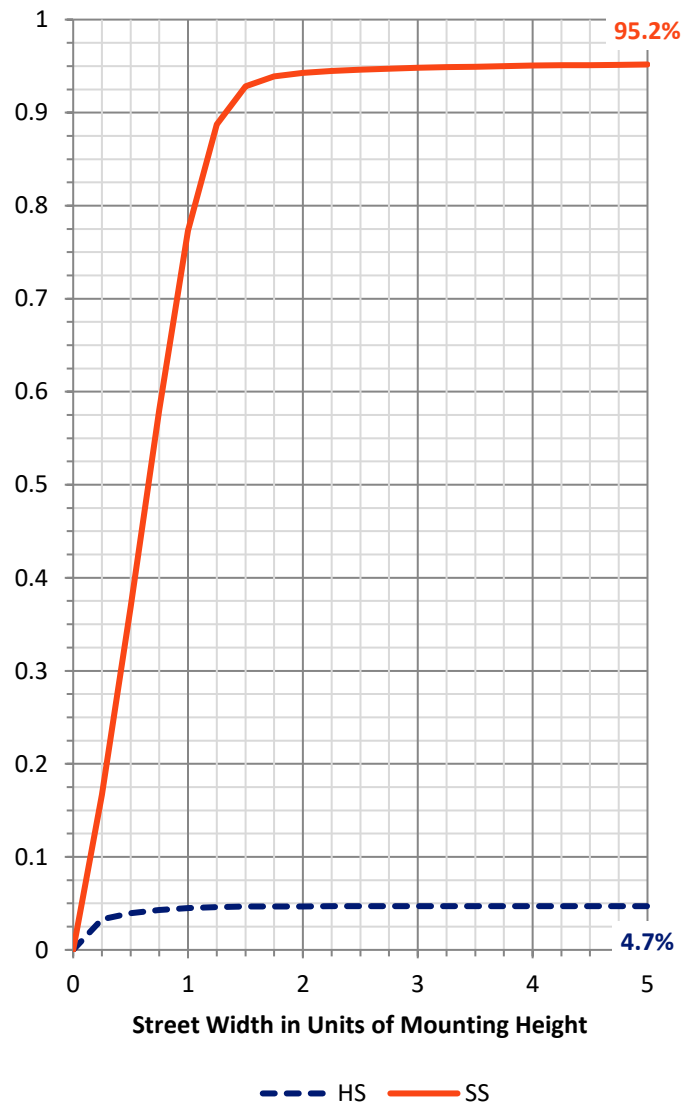
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1367.0	0.0	1367.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	27540.1	0.0	27540.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	28907.0	0.0	28907.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.5	2.0
10°-20°	1534.2	5.3
20°-30°	2657.1	9.2
30°-40°	4586.5	15.9
40°-50°	7806.4	27.0
50°-60°	7725.4	26.7
60°-70°	3526.0	12.2
70°-80°	452.8	1.6
80°-90°	51.0	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°	28907.0	100.0
0°-180°	28907.0	100.0



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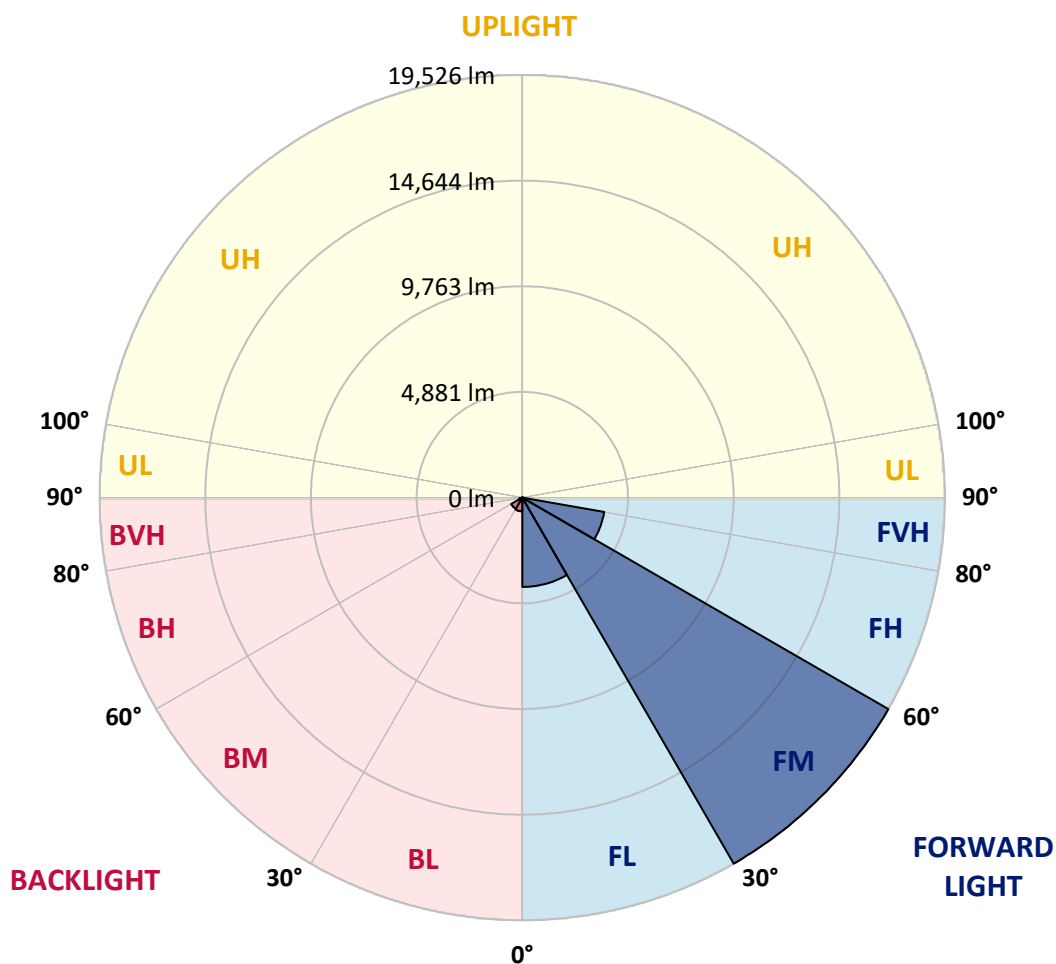
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4126.6	14.3			
FM (30°-60°)	19525.9	67.5			
FH (60°-80°)	3842.0	13.3			G2/5000
FVH (80°-90°)	45.6	0.2			G1/100
BL (0°-30°)	632.2	2.2	B2/1000		
BM (30°-60°)	592.4	2.0	B1/1000		
BH (60°-80°)	136.9	0.5	B1/500		G1/500
BVH (80°-90°)	5.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3
2.5°	8162.0	8105.4	8027.4	7966.9	7824.6	7619.8	7403.3	7403.3	7194.6	6904.0	6607.6
5°	9414.0	9377.0	9300.9	9144.9	8985.0	8698.3	8263.4	8187.3	7814.8	7288.2	6734.4
7.5°	9923.1	9940.6	9944.5	9903.6	9827.5	9544.7	9113.7	9061.0	8466.2	7760.2	6900.1
10°	9435.5	9521.3	9605.2	9774.9	10014.7	10083.0	9839.2	9784.6	9199.5	8238.0	7079.6
12.5°	8710.0	8756.8	8803.6	9070.8	9552.5	10104.5	10359.9	10358.0	9862.6	8713.9	7307.7
15°	8372.6	8413.6	8417.5	8536.4	8953.8	9757.3	10582.3	10611.5	10510.1	9300.9	7553.5
17.5°	8442.8	8476.0	8448.7	8477.9	8696.3	9375.0	10556.9	10654.4	11034.7	9864.6	7775.8
20°	8901.1	8965.5	8860.2	8778.3	8844.6	9273.6	10471.1	10607.6	11405.3	10414.5	7978.6
22.5°	9724.1	9759.3	9626.6	9402.3	9285.3	9486.2	10447.7	10582.3	11721.2	10865.1	8095.7
25°	10638.8	10627.1	10480.9	10229.3	9983.5	9915.3	10601.8	10722.7	11982.6	11270.7	8130.8
27.5°	11553.5	11588.6	11342.9	11030.8	10736.3	10558.9	10947.0	11036.7	12277.1	11732.9	8173.7
30°	12616.4	12559.9	12318.0	11961.1	11623.7	11376.0	11502.8	11528.2	12682.7	12345.3	8286.8
32.5°	13999.2	13843.2	13572.1	12948.0	12706.1	12286.8	12318.0	12349.2	13176.2	12951.9	8423.3
35°	15875.4	15867.6	15337.1	14496.5	13907.5	13386.8	13250.3	13275.6	13923.1	13852.9	8725.6
37.5°	18133.8	18165.0	17560.4	16714.0	15629.6	14802.7	14521.9	14525.8	15058.2	15097.2	9185.9
40°	19972.9	20054.8	19694.0	19122.6	18051.9	16758.8	16286.9	16244.0	16653.5	16604.8	9843.1
42.5°	20764.7	20840.8	20975.4	21174.3	20585.3	19518.5	18404.9	18463.4	18588.2	18246.9	10580.3
45°	20376.6	20497.5	21026.1	22254.8	22808.6	22449.8	21121.6	20916.9	20388.3	20031.4	11321.4
47.5°	18759.8	19054.3	19937.8	21983.7	23922.3	25135.3	24187.5	23916.4	22190.4	21334.2	11793.4
50°	16101.6	16119.1	17349.8	19965.1	23345.0	26830.1	27317.7	27114.9	23869.6	22065.6	12031.3
52.5°	11672.5	12056.7	13184.0	16212.8	20844.7	26572.7	29312.9	29229.0	25601.5	22440.0	12374.6
54°	8873.8	8947.9	9950.4	12955.8	17971.9	25158.7	29435.7	29455.2	26461.5	22666.3	12577.4
55°	7274.6	7097.1	8150.3	11036.7	16011.9	23908.6	29034.0	29127.6	26847.7	22783.3	12727.6
57.5°	3448.1	3450.1	4255.5	5821.6	10028.4	18564.8	26578.5	26910.1	26890.6	22984.2	13189.8
60°	1745.5	1757.2	1934.7	2687.5	4953.7	12341.4	21975.9	22765.7	24821.3	23013.4	13341.9
62.5°	1220.9	1207.2	1178.0	1293.0	2084.9	6272.1	16361.0	17047.5	21088.5	21899.8	12858.3
65°	1045.4	1016.1	934.2	916.6	1053.2	2498.3	10190.3	11309.7	16101.6	18962.7	11481.4
67.5°	893.2	881.5	807.4	762.6	745.0	1088.3	5258.0	5847.0	11005.5	13630.6	8696.3
70°	758.7	752.8	708.0	651.4	602.6	651.4	1950.3	2416.4	6133.7	7338.9	4103.4
72.5°	616.3	622.1	629.9	557.8	507.1	462.2	832.8	969.3	2566.6	2623.1	1435.4
75°	540.2	534.4	534.4	485.6	423.2	343.3	458.3	493.4	786.0	729.4	333.5
77.5°	380.3	366.7	429.1	399.8	353.0	243.8	261.3	276.9	325.7	278.9	156.0
80°	263.3	263.3	275.0	358.9	317.9	177.5	159.9	171.6	193.1	165.8	89.7
82.5°	148.2	152.1	179.4	191.1	185.3	119.0	105.3	107.3	128.7	113.1	56.6
85°	17.6	29.3	103.4	101.4	76.1	52.7	58.5	60.5	80.0	70.2	33.2
87.5°	2.0	3.9	21.5	27.3	19.5	21.5	21.5	21.5	27.3	31.2	23.4
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°	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3	6422.3
2.5°	6447.7	6299.4	5946.4	5536.9	5275.5	4850.4	4491.5	4232.1	4167.8	4043.0	4080.0
5°	6439.9	6131.7	5412.1	4651.4	3840.1	3235.5	2785.0	2430.1	2274.0	2170.7	2098.5
7.5°	6443.8	5962.0	4807.5	3596.3	2627.0	2034.2	1616.8	1400.3	1256.0	1195.5	1203.3
10°	6455.5	5770.9	4105.4	2664.1	1772.8	1314.5	1059.0	955.6	906.9	899.1	897.1
12.5°	6482.8	5562.2	3434.5	1977.6	1240.4	955.6	858.1	823.0	807.4	807.4	801.6
15°	6512.0	5332.1	2876.7	1470.5	955.6	821.1	776.2	758.7	748.9	748.9	747.0
17.5°	6512.0	5066.9	2356.0	1140.9	823.0	754.8	719.7	696.3	688.5	688.5	686.5
20°	6471.1	4758.7	1893.7	918.6	747.0	692.4	657.2	631.9	622.1	618.2	616.3
22.5°	6328.7	4347.2	1507.6	789.9	684.6	637.7	592.9	563.6	555.8	551.9	553.9
25°	6075.2	3883.0	1193.6	694.3	628.0	571.4	532.4	511.0	503.2	503.2	505.1
27.5°	5813.8	3397.4	945.9	622.1	559.7	509.0	477.8	464.2	462.2	468.1	470.0
30°	5572.0	2909.8	766.5	563.6	499.3	456.4	434.9	431.0	431.0	433.0	434.9
32.5°	5302.8	2482.7	641.6	512.9	450.5	413.5	401.8	401.8	405.7	405.7	409.6
35°	5133.2	2116.1	563.6	464.2	413.5	382.3	374.5	376.4	382.3	390.1	394.0
37.5°	5041.5	1823.5	512.9	425.2	378.4	356.9	349.1	353.0	366.7	380.3	382.3
40°	5049.3	1603.1	472.0	392.0	351.1	327.6	321.8	333.5	347.2	360.8	362.8
42.5°	5135.1	1439.3	433.0	353.0	327.6	294.5	292.5	304.2	310.1	323.7	325.7
45°	5236.5	1320.3	392.0	312.0	284.7	255.5	257.4	267.2	275.0	296.4	300.3
47.5°	5267.7	1238.4	345.2	265.2	234.0	224.3	226.2	232.1	247.7	267.2	269.1
50°	5302.8	1187.7	300.3	224.3	198.9	197.0	198.9	202.8	212.6	220.4	218.4
52.5°	5453.0	1185.8	263.3	195.0	169.7	173.6	175.5	173.6	165.8	154.1	150.2
54°	5593.4	1191.6	245.7	181.4	156.0	161.9	159.9	150.2	130.7	119.0	113.1
55°	5706.5	1197.5	236.0	171.6	148.2	150.2	152.1	132.6	107.3	95.6	91.7
57.5°	5928.9	1183.8	212.6	150.2	130.7	122.9	120.9	87.8	58.5	50.7	46.8
60°	5817.7	1068.8	193.1	128.7	111.2	99.5	81.9	48.8	29.3	21.5	21.5
62.5°	5380.8	906.9	171.6	105.3	91.7	76.1	42.9	27.3	13.7	7.8	5.9
65°	4813.3	762.6	154.1	83.9	72.2	48.8	23.4	17.6	5.9	0.0	0.0
67.5°	3578.8	565.6	130.7	66.3	54.6	31.2	15.6	9.8	2.0	0.0	0.0
70°	1657.7	345.2	111.2	50.7	39.0	23.4	11.7	5.9	0.0	0.0	0.0
72.5°	475.9	216.5	91.7	37.1	27.3	19.5	9.8	3.9	2.0	0.0	0.0
75°	165.8	173.6	68.3	27.3	21.5	13.7	7.8	3.9	2.0	0.0	0.0
77.5°	99.5	140.4	42.9	23.4	17.6	11.7	7.8	3.9	2.0	2.0	0.0
80°	56.6	93.6	27.3	19.5	15.6	9.8	5.9	3.9	2.0	2.0	0.0
82.5°	31.2	44.9	21.5	17.6	13.7	9.8	5.9	3.9	2.0	2.0	2.0
85°	25.4	23.4	17.6	15.6	11.7	7.8	5.9	2.0	0.0	0.0	0.0
87.5°	19.5	15.6	15.6	15.6	11.7	7.8	5.9	2.0	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)