

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: P455616

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455616
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-SA6D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 37584 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

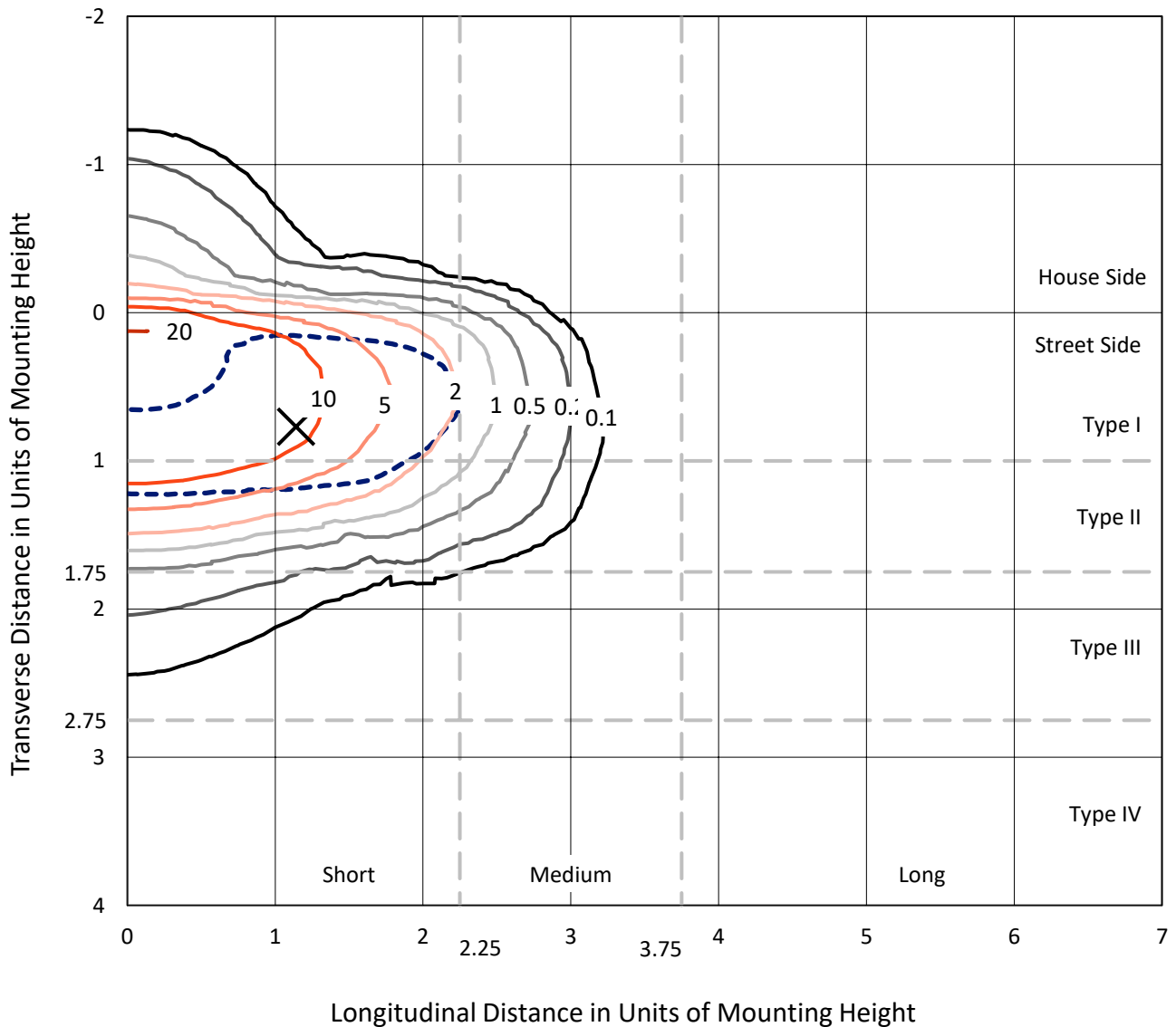
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455616
 CATALOG NUMBER: GALN-SA6D-750-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

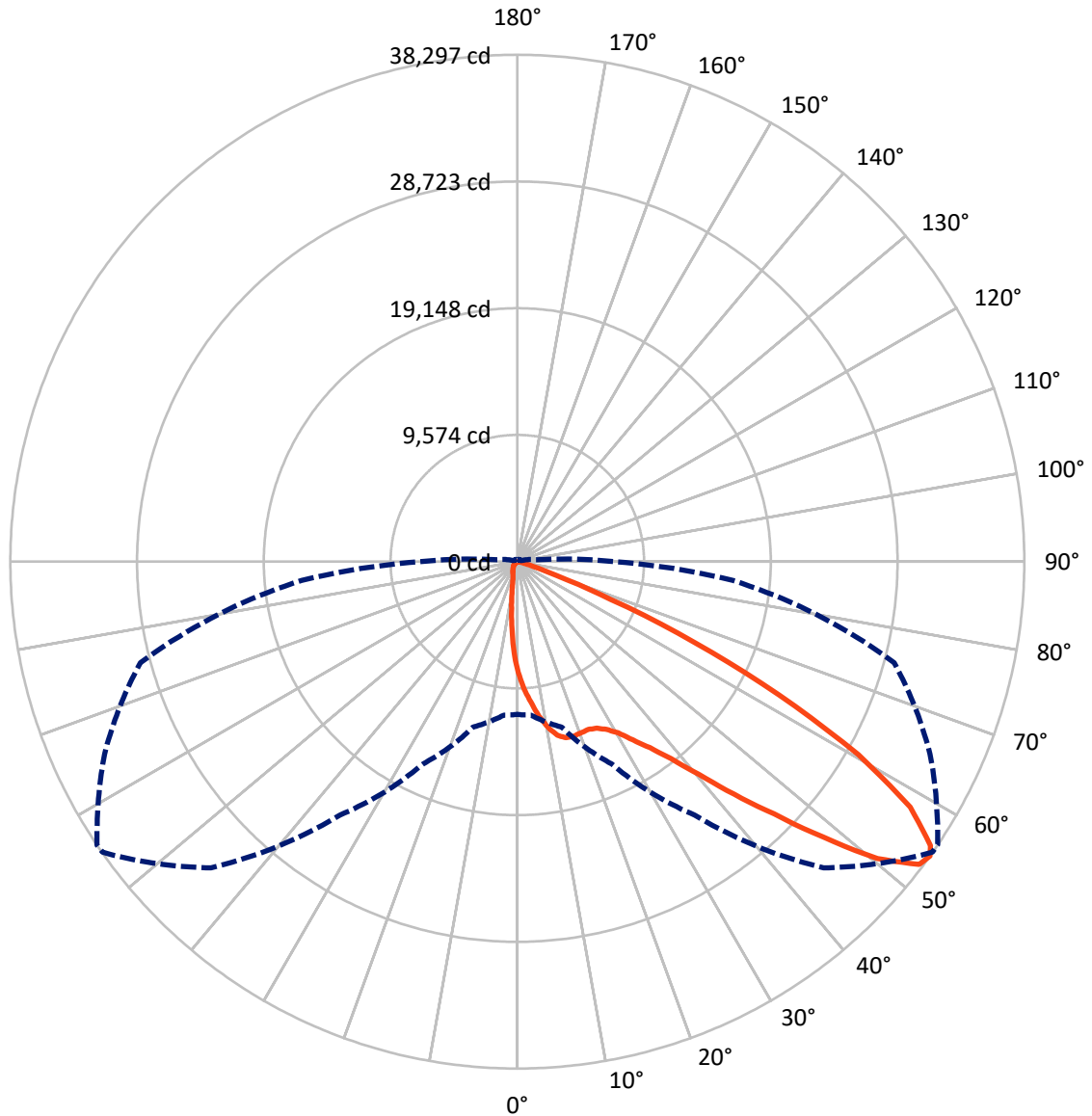
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

REPORT NUMBER: P455616
CATALOG NUMBER: GALN-SA6D-750-U-AFL-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA6D-750-U-AFL-HSS

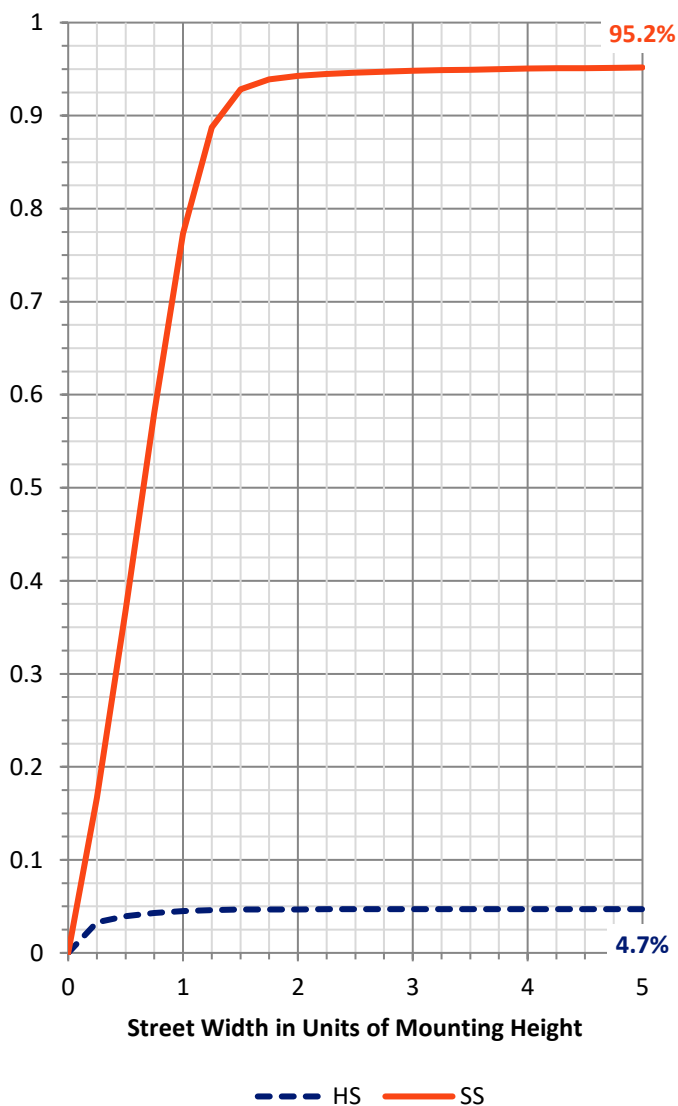
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1777.2	0.0	1777.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	35806.7	0.0	35806.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	37584.0	0.0	37584.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.9	2.0
10°-20°	1994.7	5.3
20°-30°	3454.6	9.2
30°-40°	5963.2	15.9
40°-50°	10149.7	27.0
50°-60°	10044.3	26.7
60°-70°	4584.4	12.2
70°-80°	588.8	1.6
80°-90°	66.3	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°	37584.0	100.0
0°-180°	37584.0	100.0



REPORT NUMBER: P455616

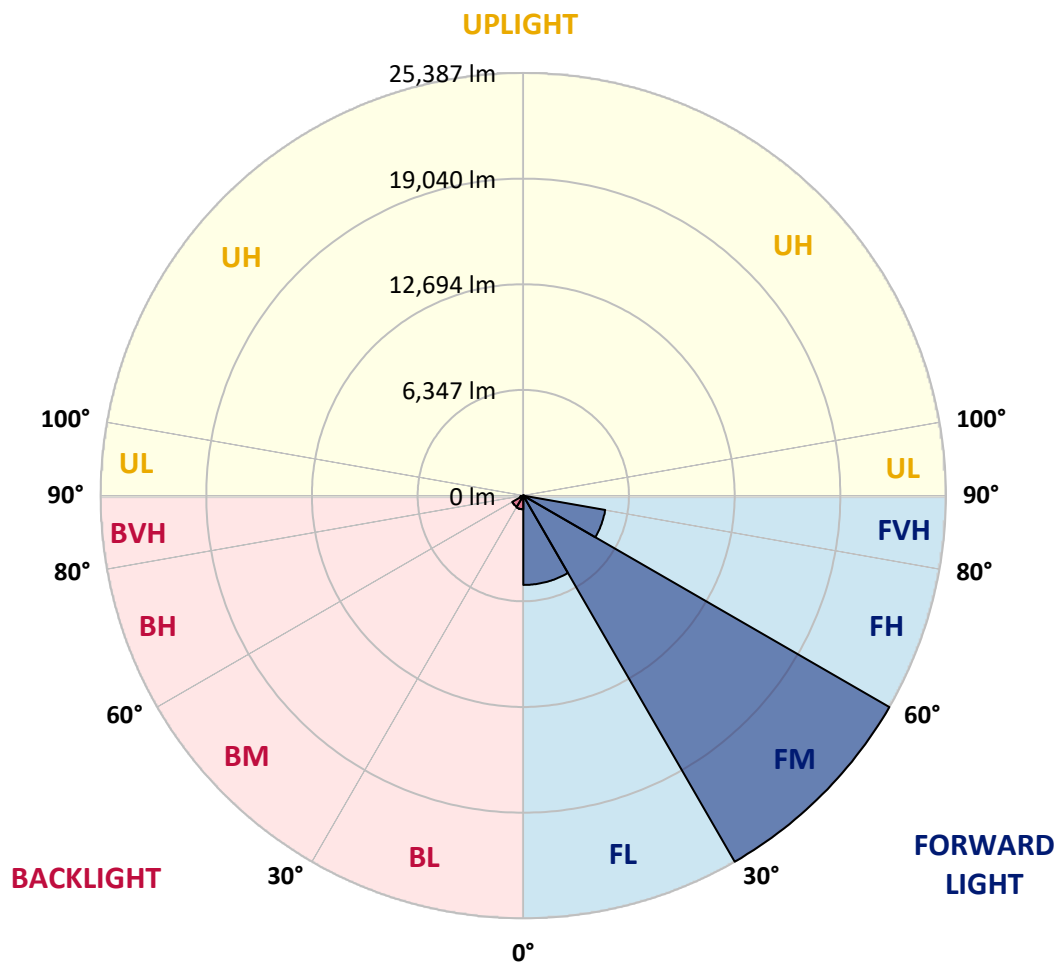
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5365.3	14.3			
FM	(30°-60°)	25387.0	67.5			
FH	(60°-80°)	4995.2	13.3			G2/5000
FVH	(80°-90°)	59.2	0.2			G1/100
BL	(0°-30°)	821.9	2.2	B2/1000		
BM	(30°-60°)	770.2	2.0	B1/1000		
BH	(60°-80°)	178.0	0.5	B1/500		G1/500
BVH	(80°-90°)	7.1	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





REPORT NUMBER: P455616

CATALOG NUMBER: GALN-SA6D-750-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1
2.5°	10611.9	10538.4	10437.0	10358.4	10173.3	9907.0	9625.5	9625.5	9354.2	8976.4	8591.0
5°	12239.9	12191.7	12092.8	11889.9	11682.0	11309.3	10743.8	10644.9	10160.6	9475.9	8755.8
7.5°	12901.7	12924.5	12929.6	12876.3	12777.4	12409.8	11849.4	11780.9	11007.5	10089.6	8971.3
10°	12267.8	12379.3	12488.4	12709.0	13020.9	13109.6	12792.6	12721.6	11960.9	10710.8	9204.6
12.5°	11324.5	11385.3	11446.2	11793.6	12419.9	13137.5	13469.7	13467.1	12823.1	11329.5	9501.3
15°	10885.8	10939.0	10944.1	11098.8	11641.4	12686.1	13758.7	13796.8	13664.9	12092.8	9820.8
17.5°	10977.1	11020.2	10984.7	11022.7	11306.7	12189.1	13725.8	13852.6	14347.0	12825.6	10109.9
20°	11573.0	11656.6	11519.7	11413.2	11499.4	12057.3	13614.2	13791.7	14828.8	13540.7	10373.6
22.5°	12643.0	12688.7	12516.3	12224.6	12072.5	12333.7	13583.8	13758.7	15239.6	14126.4	10525.7
25°	13832.3	13817.1	13626.9	13299.8	12980.3	12891.5	13784.1	13941.3	15579.4	14653.9	10571.4
27.5°	15021.5	15067.2	14747.7	14342.0	13959.1	13728.3	14232.9	14349.6	15962.3	15254.8	10627.1
30°	16403.5	16330.0	16015.5	15551.5	15112.8	14790.8	14955.6	14988.6	16489.7	16051.0	10774.2
32.5°	18201.3	17998.5	17646.0	16834.6	16520.1	15975.0	16015.5	16056.1	17131.2	16839.6	10951.7
35°	20640.7	20630.5	19940.8	18847.9	18082.1	17405.1	17227.6	17260.6	18102.4	18011.1	11344.8
37.5°	23577.0	23617.6	22831.5	21731.0	20321.2	19246.0	18880.9	18885.9	19578.2	19628.9	11943.2
40°	25968.2	26074.7	25605.6	24862.6	23470.5	21789.3	21175.7	21119.9	21652.4	21589.0	12797.7
42.5°	26997.7	27096.6	27271.5	27530.2	26764.4	25377.4	23929.5	24005.5	24167.8	23724.1	13756.2
45°	26493.1	26650.3	27337.5	28935.0	29655.1	29188.5	27461.7	27195.5	26508.3	26044.3	14719.8
47.5°	24391.0	24773.9	25922.5	28582.5	31103.0	32680.2	31447.8	31095.4	28851.3	27738.1	15333.4
50°	20934.8	20957.6	22557.7	25958.0	30352.4	34883.7	35517.7	35253.9	31034.5	28689.0	15642.8
52.5°	15176.2	15675.7	17141.4	21079.3	27101.6	34549.0	38111.7	38002.6	33286.2	29175.8	16089.1
54°	11537.5	11633.8	12937.2	16844.7	23366.5	32710.6	38271.4	38296.8	34404.5	29470.0	16352.8
55°	9458.2	9227.4	10596.7	14349.6	20818.2	31085.2	37749.1	37870.8	34906.5	29622.1	16548.0
57.5°	4483.1	4485.7	5532.9	7569.1	13038.6	24137.4	34556.6	34987.7	34962.3	29883.3	17149.0
60°	2269.5	2284.7	2515.4	3494.2	6440.7	16046.0	28572.4	29599.3	32271.9	29921.3	17346.8
62.5°	1587.4	1569.6	1531.6	1681.2	2710.7	8154.8	21272.0	22164.6	27418.6	28473.5	16717.9
65°	1359.1	1321.1	1214.6	1191.8	1369.3	3248.2	13249.1	14704.6	20934.8	24654.7	14927.7
67.5°	1161.4	1146.1	1049.8	991.5	968.6	1414.9	6836.3	7602.1	14309.0	17722.1	11306.7
70°	986.4	978.8	920.5	846.9	783.5	846.9	2535.7	3141.7	7974.8	9541.9	5335.1
72.5°	801.3	808.9	819.0	725.2	659.3	601.0	1082.7	1260.2	3337.0	3410.5	1866.3
75°	702.4	694.8	694.8	631.4	550.2	446.3	595.9	641.5	1021.9	948.4	433.6
77.5°	494.5	476.7	557.9	519.8	459.0	317.0	339.8	360.1	423.5	362.6	202.9
80°	342.3	342.3	357.5	466.6	413.3	230.7	207.9	223.1	251.0	215.5	116.6
82.5°	192.7	197.8	233.3	248.5	240.9	154.7	136.9	139.5	167.4	147.1	73.5
85°	22.8	38.0	134.4	131.9	98.9	68.5	76.1	78.6	104.0	91.3	43.1
87.5°	2.5	5.1	27.9	35.5	25.4	27.9	27.9	27.9	35.5	40.6	30.4
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°	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1	8350.1
2.5°	8383.0	8190.3	7731.4	7198.9	6859.1	6306.3	5839.7	5502.5	5418.8	5256.5	5304.7
5°	8372.9	7972.3	7036.6	6047.7	4992.8	4206.7	3621.0	3159.5	2956.6	2822.2	2728.4
7.5°	8378.0	7751.7	6250.5	4675.8	3415.6	2644.7	2102.1	1820.6	1633.0	1554.4	1564.5
10°	8393.2	7503.2	5337.7	3463.8	2305.0	1709.1	1376.9	1242.5	1179.1	1169.0	1166.4
12.5°	8428.7	7231.8	4465.4	2571.2	1612.7	1242.5	1115.7	1070.1	1049.8	1049.8	1042.2
15°	8466.7	6932.6	3740.2	1911.9	1242.5	1067.5	1009.2	986.4	973.7	973.7	971.2
17.5°	8466.7	6587.8	3063.1	1483.4	1070.1	981.3	935.7	905.2	895.1	895.1	892.6
20°	8413.5	6187.1	2462.2	1194.3	971.2	900.2	854.5	821.6	808.9	803.8	801.3
22.5°	8228.4	5652.1	1960.1	1027.0	890.0	829.2	770.9	732.8	722.7	717.6	720.1
25°	7898.7	5048.6	1551.9	902.7	816.5	743.0	692.2	664.4	654.2	654.2	656.7
27.5°	7558.9	4417.2	1229.8	808.9	727.7	661.8	621.2	603.5	601.0	608.6	611.1
30°	7244.5	3783.3	996.5	732.8	649.1	593.4	565.5	560.4	560.4	562.9	565.5
32.5°	6894.6	3228.0	834.2	666.9	585.7	537.6	522.4	522.4	527.4	527.4	532.5
35°	6674.0	2751.2	732.8	603.5	537.6	497.0	486.9	489.4	497.0	507.1	512.2
37.5°	6554.8	2370.9	666.9	552.8	491.9	464.0	453.9	459.0	476.7	494.5	497.0
40°	6564.9	2084.4	613.6	509.7	456.4	426.0	418.4	433.6	451.4	469.1	471.6
42.5°	6676.5	1871.4	562.9	459.0	426.0	382.9	380.4	395.6	403.2	420.9	423.5
45°	6808.4	1716.7	509.7	405.7	370.2	332.2	334.7	347.4	357.5	385.4	390.5
47.5°	6848.9	1610.2	448.8	344.9	304.3	291.6	294.1	301.7	322.0	347.4	349.9
50°	6894.6	1544.2	390.5	291.6	258.6	256.1	258.6	263.7	276.4	286.5	284.0
52.5°	7089.8	1541.7	342.3	253.6	220.6	225.7	228.2	225.7	215.5	200.3	195.2
54°	7272.4	1549.3	319.5	235.8	202.9	210.5	207.9	195.2	169.9	154.7	147.1
55°	7419.5	1556.9	306.8	223.1	192.7	195.2	197.8	172.4	139.5	124.2	119.2
57.5°	7708.6	1539.2	276.4	195.2	169.9	159.7	157.2	114.1	76.1	65.9	60.9
60°	7564.0	1389.6	251.0	167.4	144.5	129.3	106.5	63.4	38.0	27.9	27.9
62.5°	6996.0	1179.1	223.1	136.9	119.2	98.9	55.8	35.5	17.7	10.1	7.6
65°	6258.1	991.5	200.3	109.0	93.8	63.4	30.4	22.8	7.6	0.0	0.0
67.5°	4653.0	735.4	169.9	86.2	71.0	40.6	20.3	12.7	2.5	0.0	0.0
70°	2155.4	448.8	144.5	65.9	50.7	30.4	15.2	7.6	0.0	0.0	0.0
72.5°	618.7	281.5	119.2	48.2	35.5	25.4	12.7	5.1	2.5	0.0	0.0
75°	215.5	225.7	88.7	35.5	27.9	17.7	10.1	5.1	2.5	0.0	0.0
77.5°	129.3	182.6	55.8	30.4	22.8	15.2	10.1	5.1	2.5	2.5	0.0
80°	73.5	121.7	35.5	25.4	20.3	12.7	7.6	5.1	2.5	2.5	0.0
82.5°	40.6	58.3	27.9	22.8	17.7	12.7	7.6	5.1	2.5	2.5	2.5
85°	33.0	30.4	22.8	20.3	15.2	10.1	7.6	2.5	0.0	0.0	0.0
87.5°	25.4	20.3	20.3	20.3	15.2	10.1	7.6	2.5	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)