

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: P651620

Luminaire Tested: **GALN-SA9D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48788.9 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

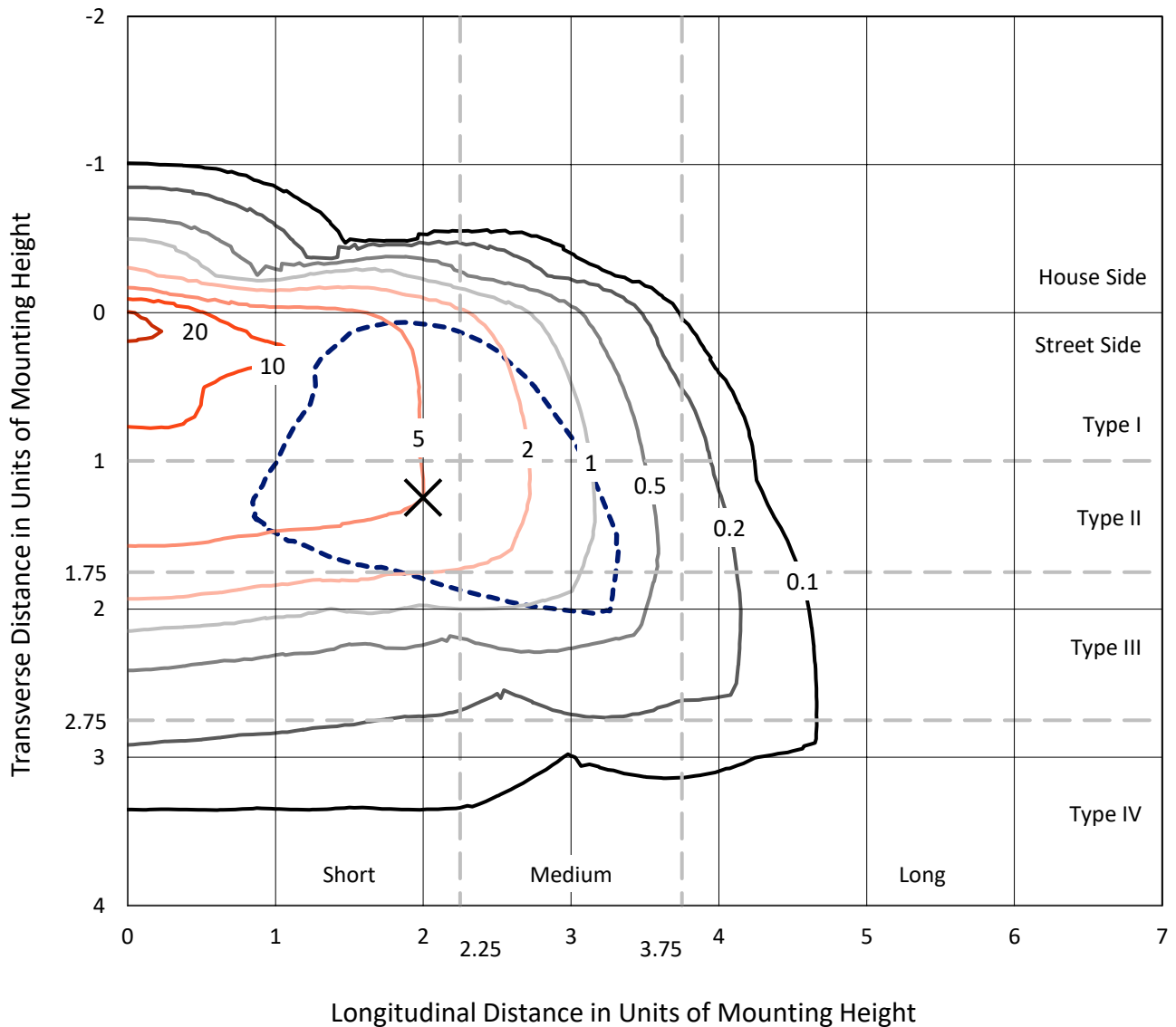
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

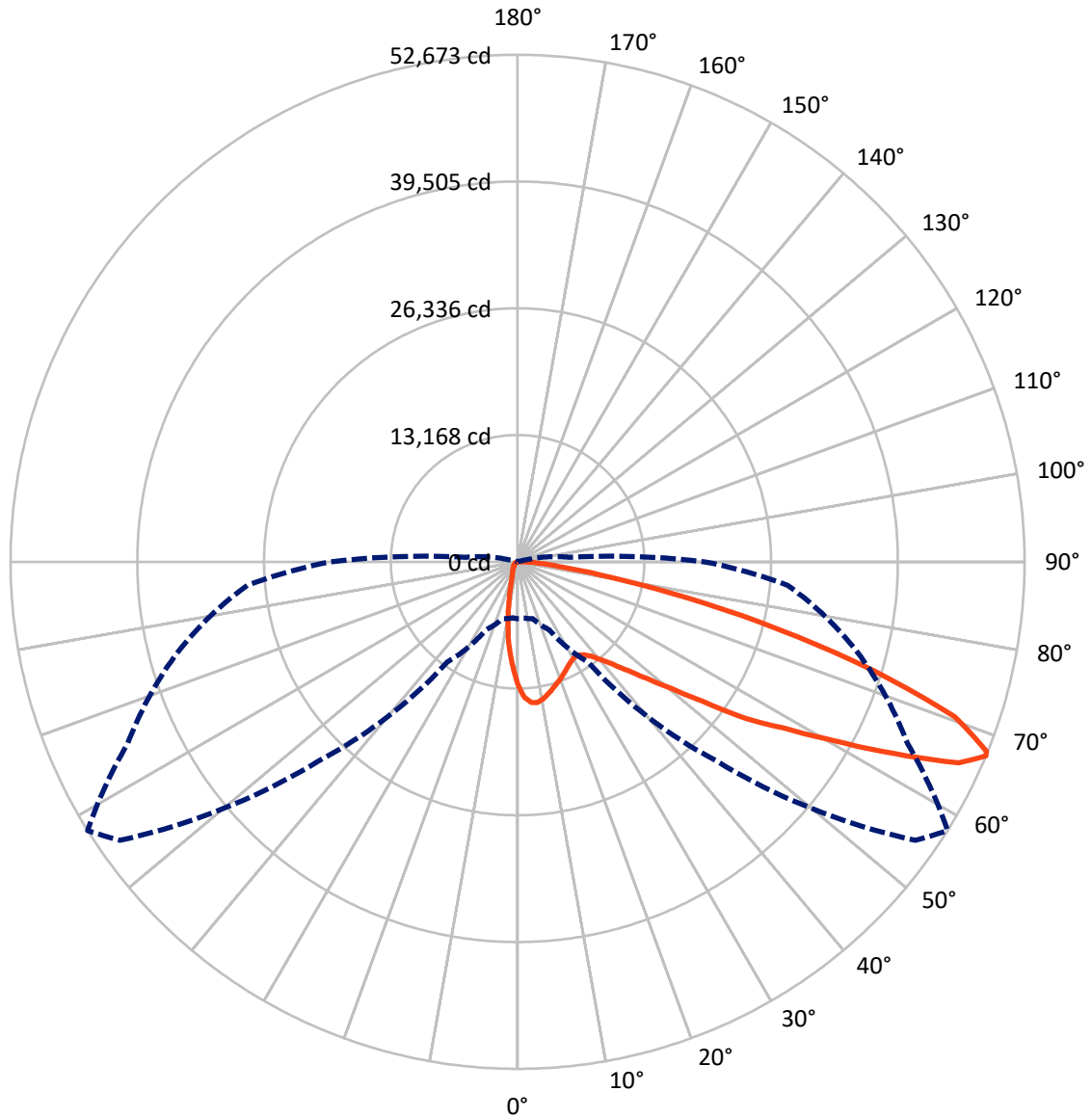
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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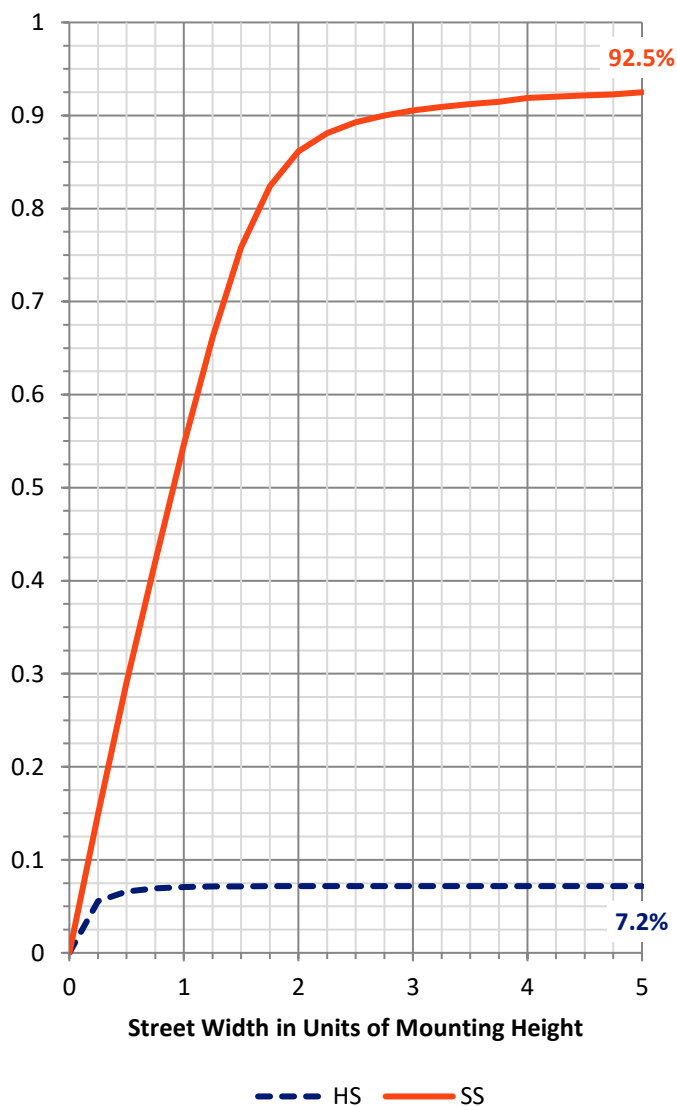
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3520.9	0.0	3520.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	45268.0	0.0	45268.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	48788.9	0.0	48788.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.5	2.2
10°-20°	2266.7	4.6
20°-30°	3071.6	6.3
30°-40°	4260.1	8.7
40°-50°	6794.3	13.9
50°-60°	11744.6	24.1
60°-70°	13415.9	27.5
70°-80°	5593.2	11.5
80°-90°	593.0	1.2
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°	48788.9	100.0
0°-180°	48788.9	100.0

Coefficient of Utilization



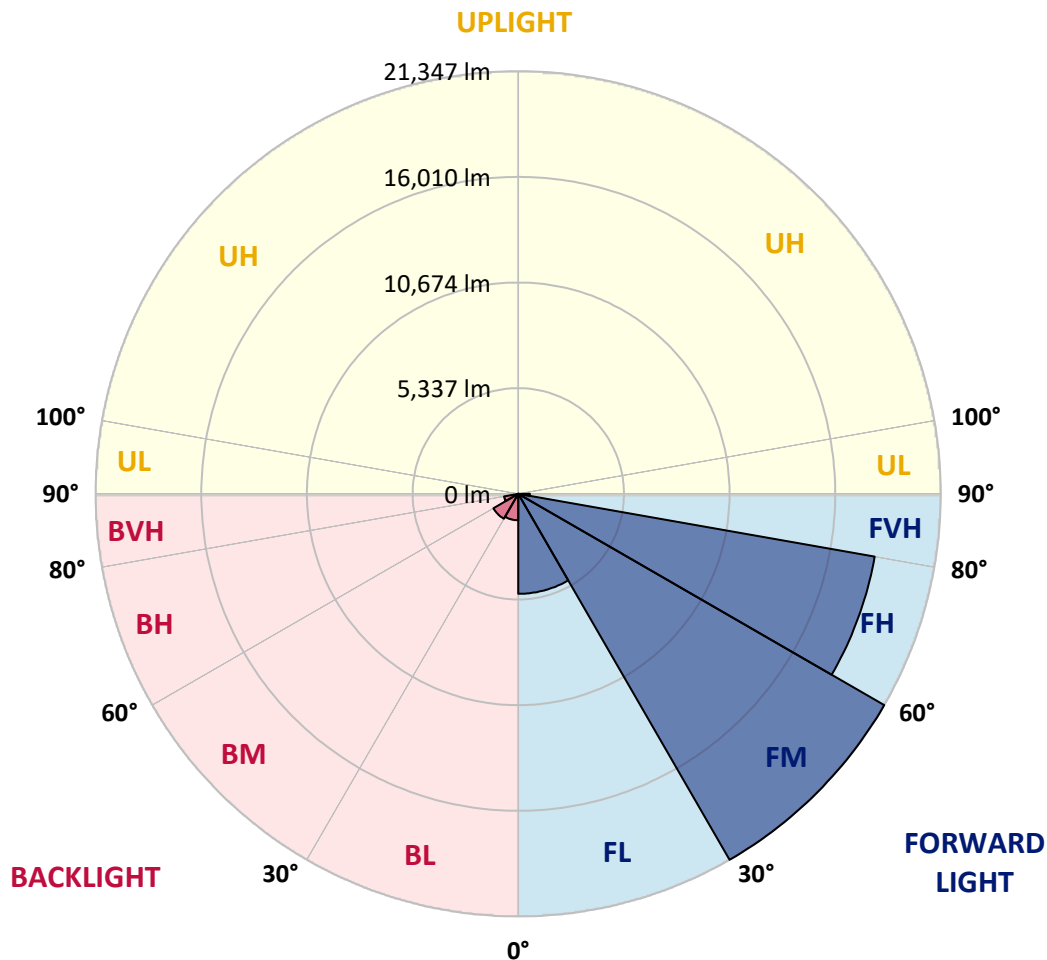
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5050.8	10.4			
FM (30°-60°)	21347.2	43.8			
FH (60°-80°)	18281.3	37.5			G5
FVH (80°-90°)	588.7	1.2			G4/750
BL (0°-30°)	1337.0	2.7	B3/2500		
BM (30°-60°)	1451.8	3.0	B2/2500		
BH (60°-80°)	727.9	1.5	B2/1000		G2/1000
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5
2.5°	15010.3	15033.1	14948.4	14879.9	14703.8	14514.7	14263.7	14130.0	13901.8	13507.3	13070.4
5°	15362.4	15391.7	15378.7	15362.4	15293.9	15111.3	14791.8	14674.5	14338.7	13696.4	12907.4
7.5°	14579.9	14687.6	14700.6	14827.8	14948.4	14964.7	14844.0	14756.0	14446.3	13693.2	12617.3
10°	13543.1	13614.9	13719.2	13865.9	14156.1	14397.3	14514.7	14501.7	14322.4	13592.1	12278.2
12.5°	12496.6	12535.8	12695.5	12946.5	13301.9	13712.7	14025.7	14087.7	14090.9	13471.5	11994.5
15°	11596.8	11580.5	11704.4	11994.5	12493.4	13008.5	13569.3	13667.1	13823.5	13354.1	11730.4
17.5°	10827.4	10912.1	10931.7	11251.2	11710.9	12379.3	13093.3	13266.0	13579.0	13253.0	11512.0
20°	10351.4	10397.0	10439.4	10618.7	11032.7	11737.0	12646.6	12884.6	13350.8	13161.7	11267.5
22.5°	10211.2	10240.5	10204.6	10260.1	10553.5	11179.5	12160.8	12477.1	13132.4	13077.0	11068.7
25°	10318.7	10348.1	10263.3	10198.1	10299.2	10726.3	11691.3	12076.1	12956.4	13060.6	10918.6
27.5°	10579.6	10635.0	10517.6	10400.2	10341.6	10481.8	11322.9	11769.5	12835.7	13138.9	10850.2
30°	10987.1	11019.7	10931.7	10788.3	10654.5	10514.4	11130.6	11557.7	12803.0	13321.4	10843.7
32.5°	11430.5	11499.0	11450.0	11355.5	11182.7	10850.2	11186.0	11564.2	12881.3	13585.5	10925.2
35°	11978.3	12056.5	12102.2	12082.6	11860.9	11446.9	11538.1	11857.6	13090.0	14071.4	11146.9
37.5°	12516.2	12584.6	12842.2	12930.2	12734.6	12343.4	12222.8	12434.7	13549.7	14707.1	11547.9
40°	13132.4	13223.6	13585.5	13921.3	13826.8	13416.1	13194.3	13370.4	14253.9	15665.6	12307.5
42.5°	13722.5	13885.5	14436.5	15029.8	15117.9	14658.2	14511.5	14570.2	15297.2	17044.7	13367.1
45°	14560.4	14713.6	15424.4	16229.6	16643.7	16285.0	16135.1	16125.3	16728.4	18984.6	15085.3
47.5°	15769.9	15906.8	16744.7	17540.2	18277.1	18326.0	18042.3	18140.1	18528.2	21253.8	17191.4
50°	17253.4	17576.1	18127.1	18955.2	19939.9	20735.4	20823.3	20693.0	21025.5	23881.5	19721.4
52.5°	19408.4	19532.3	20037.7	20719.0	21873.1	23223.0	24269.5	24090.1	23985.8	26385.4	22277.4
55°	21015.7	21182.0	21967.7	22903.4	24595.5	26375.6	28644.7	28706.7	27389.5	28791.5	24778.0
57.5°	20529.9	20784.2	21974.2	23855.4	27575.4	30829.1	32517.9	32560.3	30539.0	31129.1	27601.5
60°	18035.8	18156.4	19861.6	22371.9	27829.7	35654.4	38011.5	37669.1	33743.8	33743.8	30095.6
62.5°	12790.0	12979.2	14361.5	18055.3	25133.5	37330.1	44590.7	43883.3	38158.2	36244.4	31582.2
65°	8173.5	7990.9	8907.0	11397.9	18723.8	34855.6	50319.0	50361.4	42311.8	37245.4	30770.4
67°	5920.6	5848.9	6113.0	7792.0	12695.5	29300.1	50439.6	52672.9	44698.3	36612.9	28175.3
67.5°	5415.3	5470.7	5663.1	7029.2	11534.8	26662.5	49891.9	52536.0	45236.3	36231.4	27236.3
70°	4104.7	4010.1	4218.8	4971.9	6915.0	16819.7	42918.2	48183.6	44568.0	32446.2	21762.3
72.5°	3019.0	3009.3	3299.4	4065.6	5324.0	8959.3	32218.0	38634.2	36410.7	24706.3	13702.9
75°	2037.7	2129.0	2591.9	3397.2	4825.2	5809.8	21964.5	28028.6	25276.9	14029.0	5601.1
77.5°	1160.7	1167.1	1669.3	2728.9	4332.9	4675.2	13015.0	17856.5	13380.1	4665.4	1662.7
80°	502.1	551.0	828.1	1982.2	3592.8	4140.6	7462.8	9813.4	5412.1	987.8	537.9
82.5°	185.9	218.4	365.2	1219.4	2621.2	3410.3	4508.9	4685.0	1835.6	348.8	335.8
85°	0.0	6.6	133.6	570.5	1366.0	1522.5	3012.5	2777.7	811.8	166.3	218.4
87.5°	0.0	0.0	0.0	58.7	179.3	567.3	935.7	1043.3	195.6	58.7	52.1
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°	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5	12933.5
2.5°	12835.7	12623.7	12092.3	11560.9	11166.5	10837.1	10341.6	10071.0	9927.5	9715.6	9728.7
5°	12512.9	12082.6	11146.9	10178.5	9396.1	8633.2	7720.3	7351.9	7042.2	6866.1	6748.8
7.5°	12033.7	11397.9	10012.3	8721.3	7518.2	6184.7	5183.8	4515.5	4065.6	3899.3	3739.5
10°	11508.7	10664.4	8861.4	7071.5	5402.2	4026.5	3178.7	2565.8	2347.4	2145.2	2164.8
12.5°	11023.0	9996.0	7805.1	5581.5	3785.2	2559.3	1995.3	1744.2	1672.5	1649.7	1649.7
15°	10625.2	9357.0	6670.5	4196.0	2595.2	1838.8	1597.6	1529.1	1503.0	1496.5	1496.5
17.5°	10201.4	8750.6	5646.8	3100.5	1887.7	1538.9	1457.4	1411.7	1401.9	1395.4	1395.4
20°	9823.2	8140.9	4675.2	2308.3	1525.8	1385.6	1333.5	1304.1	1294.3	1287.8	1291.1
22.5°	9464.5	7599.7	3762.4	1744.2	1343.2	1261.8	1209.5	1180.3	1160.7	1144.3	1147.6
25°	9145.0	7078.0	3025.5	1428.0	1209.5	1137.9	1085.6	1043.3	1000.9	981.4	978.1
27.5°	8920.1	6621.6	2357.2	1222.6	1088.9	1010.7	945.5	893.3	837.9	808.5	802.1
30°	8734.3	6158.6	1864.9	1079.2	968.3	893.3	811.8	736.8	678.1	648.8	635.7
32.5°	8613.6	5718.5	1470.4	961.8	867.2	775.9	684.7	609.6	544.5	515.1	508.6
35°	8594.1	5350.1	1203.1	864.0	775.9	678.1	583.6	502.1	446.7	417.3	410.8
37.5°	8734.3	5066.4	1007.4	785.7	701.0	593.4	489.0	414.0	365.2	342.3	339.1
40°	9109.2	4887.1	873.7	720.5	632.5	515.1	417.3	352.1	303.2	280.4	280.4
42.5°	9823.2	4893.7	785.7	658.6	564.1	440.1	355.4	293.4	251.0	231.4	225.0
45°	10938.2	5115.4	710.7	596.6	498.8	381.5	303.2	241.3	198.9	182.6	182.6
47.5°	12431.4	5555.5	645.6	534.7	440.1	326.1	257.6	195.6	159.8	143.5	143.5
50°	14384.3	6263.0	590.1	482.5	391.2	280.4	208.7	159.8	123.9	110.8	107.6
52.5°	16425.2	7136.7	524.9	436.9	335.8	238.0	169.5	123.9	94.5	84.8	81.5
55°	18678.1	7990.9	463.0	391.2	273.8	198.9	133.6	97.8	68.5	58.7	58.7
57.5°	20950.5	8828.8	388.0	326.1	215.2	146.7	104.4	71.7	45.7	35.8	35.8
60°	22874.1	9099.5	329.3	264.1	163.0	104.4	75.0	45.7	26.1	16.3	16.3
62.5°	23138.2	8186.5	277.1	202.2	117.4	71.7	39.1	26.1	9.8	6.6	6.6
65°	21703.6	6651.0	231.4	153.2	78.2	35.8	16.3	9.8	3.3	0.0	0.0
67°	19447.5	5392.5	189.1	114.1	55.4	22.8	9.8	3.3	0.0	0.0	0.0
67.5°	18870.4	5141.5	182.6	107.6	48.9	19.6	6.6	3.3	0.0	0.0	0.0
70°	14808.2	3850.4	130.4	65.2	29.4	13.0	0.0	0.0	0.0	0.0	0.0
72.5°	9203.7	2177.9	94.5	39.1	19.6	6.6	0.0	0.0	0.0	0.0	0.0
75°	3478.7	762.9	65.2	26.1	13.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1082.5	290.1	39.1	19.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	365.2	110.8	26.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	225.0	45.7	16.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	140.2	19.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.1	6.6	3.3	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)