

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: P646945

Luminaire Tested: **GALN-SA5C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646945
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-SA5C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 22804.1 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

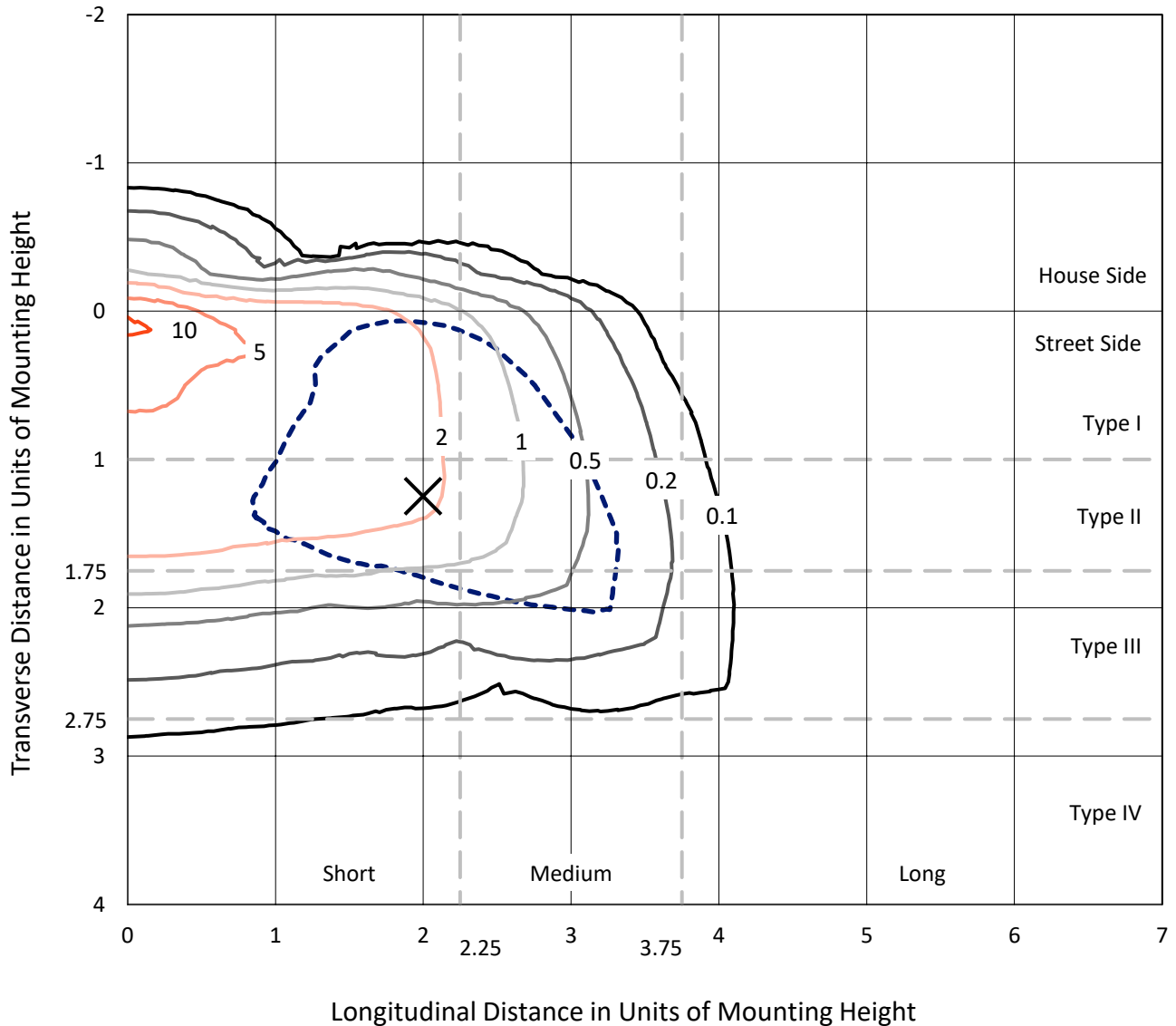
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

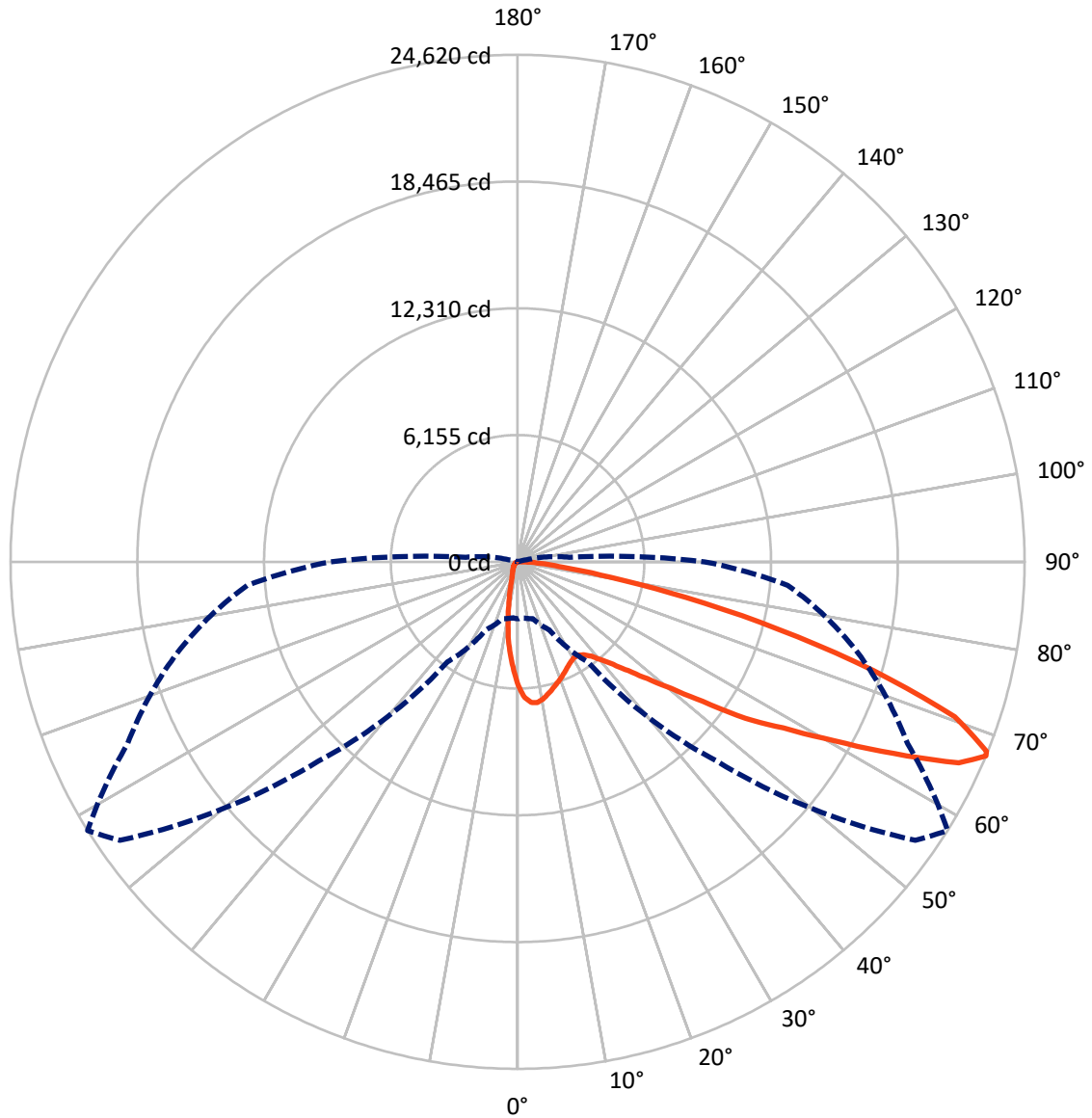
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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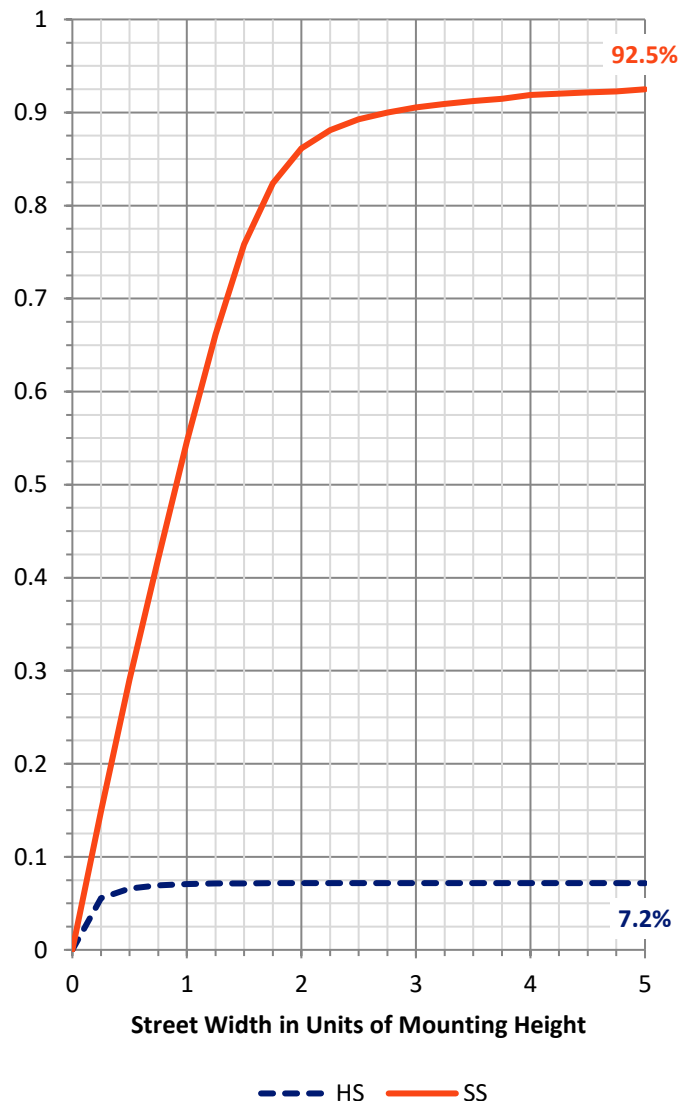
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1645.7	0.0	1645.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21158.4	0.0	21158.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	22804.1	0.0	22804.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.5	2.2
10°-20°	1059.5	4.6
20°-30°	1435.7	6.3
30°-40°	1991.2	8.7
40°-50°	3175.7	13.9
50°-60°	5489.4	24.1
60°-70°	6270.7	27.5
70°-80°	2614.3	11.5
80°-90°	277.2	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°	22804.1	100.0
0°-180°	22804.1	100.0

Coefficient of Utilization



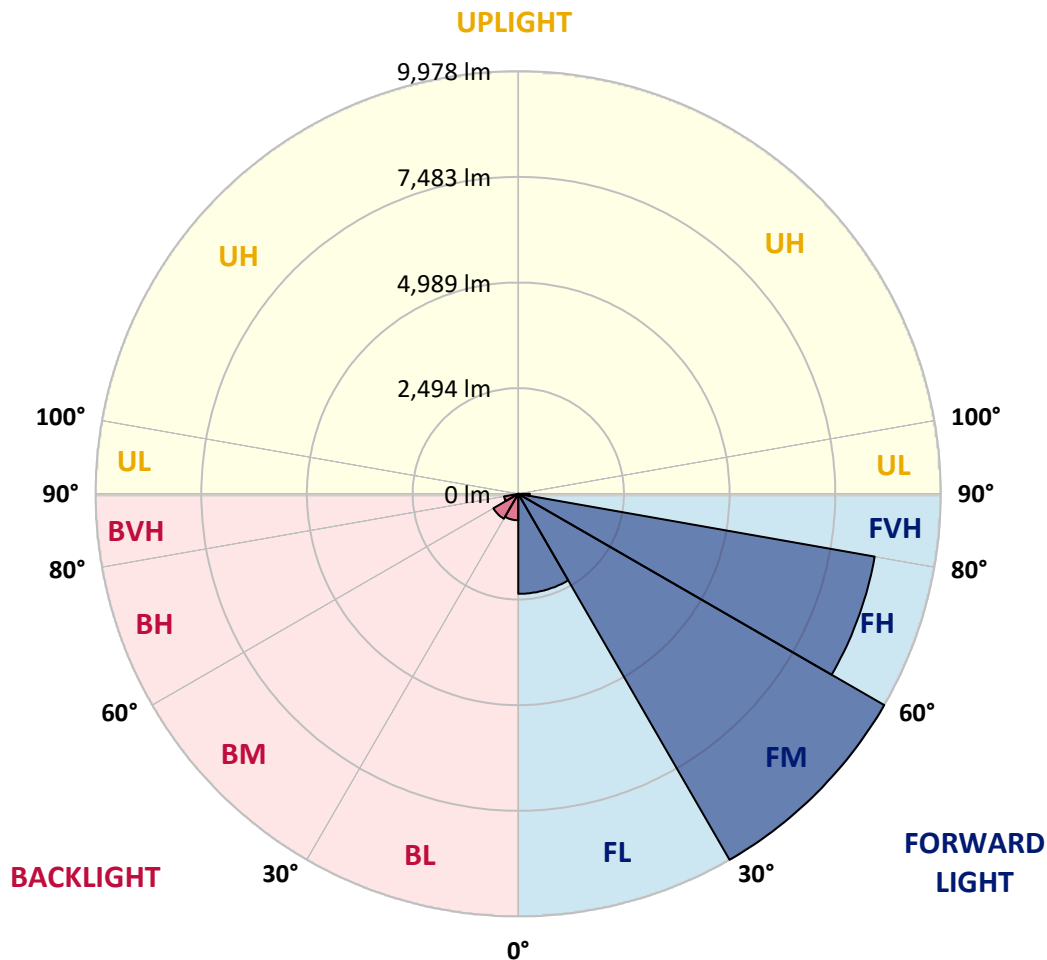
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.8	10.4			
FM (30°-60°)	9977.7	43.8			
FH (60°-80°)	8544.7	37.5			G4/12000
FVH (80°-90°)	275.2	1.2			G3/500
BL (0°-30°)	624.9	2.7	B2/1000		
BM (30°-60°)	678.6	3.0	B1/1000		
BH (60°-80°)	340.2	1.5	B1/500		G1/500
BVH (80°-90°)	2.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2
2.5°	7015.8	7026.5	6986.9	6954.9	6872.6	6784.2	6666.9	6604.4	6497.7	6313.3	6109.1
5°	7180.4	7194.1	7188.0	7180.4	7148.4	7063.1	6913.7	6858.9	6701.9	6401.7	6032.9
7.5°	6814.7	6865.0	6871.1	6930.5	6986.9	6994.5	6938.2	6897.0	6752.2	6400.2	5897.3
10°	6330.1	6363.7	6412.4	6481.0	6616.6	6729.3	6784.2	6778.1	6694.3	6352.9	5738.8
12.5°	5840.9	5859.3	5933.9	6051.3	6217.3	6409.3	6555.7	6584.6	6586.1	6296.6	5606.3
15°	5420.4	5412.7	5470.7	5606.3	5839.5	6080.2	6342.3	6388.0	6461.2	6241.8	5482.9
17.5°	5060.8	5100.4	5109.5	5258.9	5473.7	5786.1	6119.8	6200.6	6346.8	6194.5	5380.8
20°	4838.2	4859.6	4879.4	4963.2	5156.8	5485.9	5911.0	6022.3	6240.2	6151.8	5266.5
22.5°	4772.7	4786.5	4769.7	4795.6	4932.7	5225.4	5684.0	5831.8	6138.1	6112.2	5173.5
25°	4823.0	4836.7	4797.1	4766.7	4813.9	5013.5	5464.6	5644.4	6055.8	6104.6	5103.4
27.5°	4945.0	4970.8	4916.0	4861.1	4833.7	4899.2	5292.4	5501.1	5999.4	6141.1	5071.4
30°	5135.4	5150.7	5109.5	5042.4	4980.0	4914.4	5202.5	5402.1	5984.2	6226.5	5068.4
32.5°	5342.6	5374.7	5351.8	5307.6	5226.8	5071.4	5228.4	5405.1	6020.8	6349.9	5106.5
35°	5598.7	5635.3	5656.5	5647.5	5543.8	5350.2	5392.9	5542.3	6118.3	6577.0	5210.1
37.5°	5850.1	5882.1	6002.5	6043.7	5952.2	5769.3	5712.9	5812.0	6333.1	6874.1	5397.5
40°	6138.1	6180.8	6349.9	6506.9	6462.7	6270.7	6167.1	6249.4	6662.3	7322.1	5752.5
42.5°	6413.9	6490.1	6747.7	7025.0	7066.1	6851.2	6782.7	6810.1	7150.0	7966.7	6247.8
45°	6805.5	6877.2	7209.4	7585.8	7779.3	7611.7	7541.6	7537.0	7819.0	8873.4	7050.9
47.5°	7370.9	7434.9	7826.6	8198.4	8542.8	8565.6	8433.1	8478.8	8660.1	9934.1	8035.3
50°	8064.3	8215.2	8472.7	8859.7	9320.0	9691.7	9732.9	9671.9	9827.4	11162.3	9217.9
52.5°	9071.5	9129.5	9365.6	9684.1	10223.6	10854.5	11343.6	11259.8	11211.1	12332.6	10412.6
55°	9822.8	9900.5	10267.8	10705.1	11496.0	12328.0	13388.7	13417.6	12802.0	13457.2	11581.4
57.5°	9595.7	9714.6	10270.8	11150.1	12888.8	14409.6	15199.0	15218.8	14274.0	14549.8	12901.0
60°	8430.0	8486.4	9283.3	10456.7	13007.7	16664.9	17766.7	17606.7	15772.0	15772.0	14066.8
62.5°	5978.1	6066.5	6712.6	8439.2	11747.4	17448.2	20841.8	20511.2	17835.3	16940.8	14761.7
65°	3820.3	3735.0	4163.2	5327.5	8751.5	16291.6	23519.3	23539.1	19776.7	17408.6	14382.2
67°	2767.4	2733.8	2857.2	3642.0	5933.9	13694.9	23575.7	24619.5	20892.2	17112.9	13169.2
67.5°	2531.1	2557.0	2646.9	3285.5	5391.4	12462.1	23319.6	24555.5	21143.6	16934.6	12730.3
70°	1918.5	1874.3	1971.9	2323.9	3232.1	7861.6	20060.1	22521.1	20831.2	15165.5	10171.8
72.5°	1411.1	1406.5	1542.1	1900.3	2488.5	4187.6	15058.8	18057.8	17018.5	11547.8	6404.8
75°	952.4	995.1	1211.5	1587.8	2255.3	2715.5	10266.2	13100.6	11814.5	6557.2	2618.0
77.5°	542.5	545.5	780.2	1275.5	2025.2	2185.2	6083.3	8346.2	6253.9	2180.7	777.2
80°	234.7	257.5	387.0	926.5	1679.3	1935.3	3488.1	4586.8	2529.6	461.7	251.4
82.5°	86.8	102.1	170.7	569.9	1225.2	1594.0	2107.5	2189.8	857.9	163.0	157.0
85°	0.0	3.1	62.5	266.7	638.5	711.7	1408.1	1298.3	379.4	77.8	102.1
87.5°	0.0	0.0	0.0	27.4	83.8	265.1	437.4	487.7	91.5	27.4	24.4
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°	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2	6045.2
2.5°	5999.4	5900.4	5652.0	5403.6	5219.2	5065.3	4833.7	4707.2	4640.1	4541.1	4547.2
5°	5848.5	5647.5	5210.1	4757.5	4391.8	4035.2	3608.5	3436.3	3291.6	3209.3	3154.4
7.5°	5624.6	5327.5	4679.8	4076.3	3514.0	2890.8	2422.9	2110.6	1900.3	1822.5	1747.9
10°	5379.2	4984.6	4141.8	3305.3	2525.0	1881.9	1485.7	1199.2	1097.2	1002.7	1011.9
12.5°	5152.1	4672.2	3648.2	2608.9	1769.2	1196.3	932.6	815.3	781.7	771.1	771.1
15°	4966.3	4373.4	3117.8	1961.2	1213.0	859.4	746.7	714.7	702.5	699.5	699.5
17.5°	4768.2	4090.1	2639.3	1449.2	882.3	719.3	681.1	659.8	655.3	652.2	652.2
20°	4591.4	3805.1	2185.2	1078.9	713.2	647.6	623.3	609.6	604.9	601.9	603.5
22.5°	4423.8	3552.2	1758.5	815.3	627.8	589.8	565.3	551.6	542.5	534.9	536.4
25°	4274.4	3308.3	1414.2	667.4	565.3	531.8	507.5	487.7	467.8	458.7	457.2
27.5°	4169.3	3095.0	1101.8	571.4	509.0	472.4	441.9	417.6	391.7	378.0	374.9
30°	4082.4	2878.5	871.6	504.4	452.6	417.6	379.4	344.4	317.0	303.3	297.1
32.5°	4026.0	2672.8	687.2	449.5	405.4	362.7	320.0	284.9	254.5	240.8	237.7
35°	4016.9	2500.7	562.3	403.8	362.7	317.0	272.8	234.7	208.7	195.0	192.0
37.5°	4082.4	2368.1	470.9	367.2	327.6	277.3	228.6	193.6	170.7	160.0	158.5
40°	4257.6	2284.2	408.4	336.8	295.7	240.8	195.0	164.6	141.7	131.1	131.1
42.5°	4591.4	2287.3	367.2	307.8	263.6	205.7	166.1	137.2	117.4	108.2	105.2
45°	5112.5	2391.0	332.2	278.9	233.2	178.3	141.7	112.8	92.9	85.3	85.3
47.5°	5810.5	2596.7	301.7	249.9	205.7	152.4	120.3	91.5	74.7	67.0	67.0
50°	6723.3	2927.3	275.9	225.5	182.8	131.1	97.6	74.7	57.9	51.8	50.3
52.5°	7677.2	3335.7	245.3	204.2	157.0	111.3	79.2	57.9	44.2	39.6	38.1
55°	8730.2	3735.0	216.4	182.8	128.0	92.9	62.5	45.7	32.0	27.4	27.4
57.5°	9792.4	4126.6	181.3	152.4	100.5	68.6	48.8	33.5	21.3	16.8	16.8
60°	10691.4	4253.1	153.9	123.4	76.2	48.8	35.1	21.3	12.2	7.6	7.6
62.5°	10814.9	3826.4	129.5	94.5	54.9	33.5	18.3	12.2	4.5	3.1	3.1
65°	10144.3	3108.7	108.2	71.6	36.6	16.8	7.6	4.5	1.5	0.0	0.0
67°	9089.8	2520.5	88.4	53.3	25.9	10.6	4.5	1.5	0.0	0.0	0.0
67.5°	8820.1	2403.1	85.3	50.3	22.9	9.2	3.1	1.5	0.0	0.0	0.0
70°	6921.4	1799.6	60.9	30.5	13.7	6.1	0.0	0.0	0.0	0.0	0.0
72.5°	4301.9	1017.9	44.2	18.3	9.2	3.1	0.0	0.0	0.0	0.0	0.0
75°	1626.0	356.6	30.5	12.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	505.9	135.6	18.3	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	170.7	51.8	12.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	105.2	21.3	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	65.5	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	3.1	1.5	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)