

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: P651470

Luminaire Tested: **GALN-SA6D-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28840.4 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

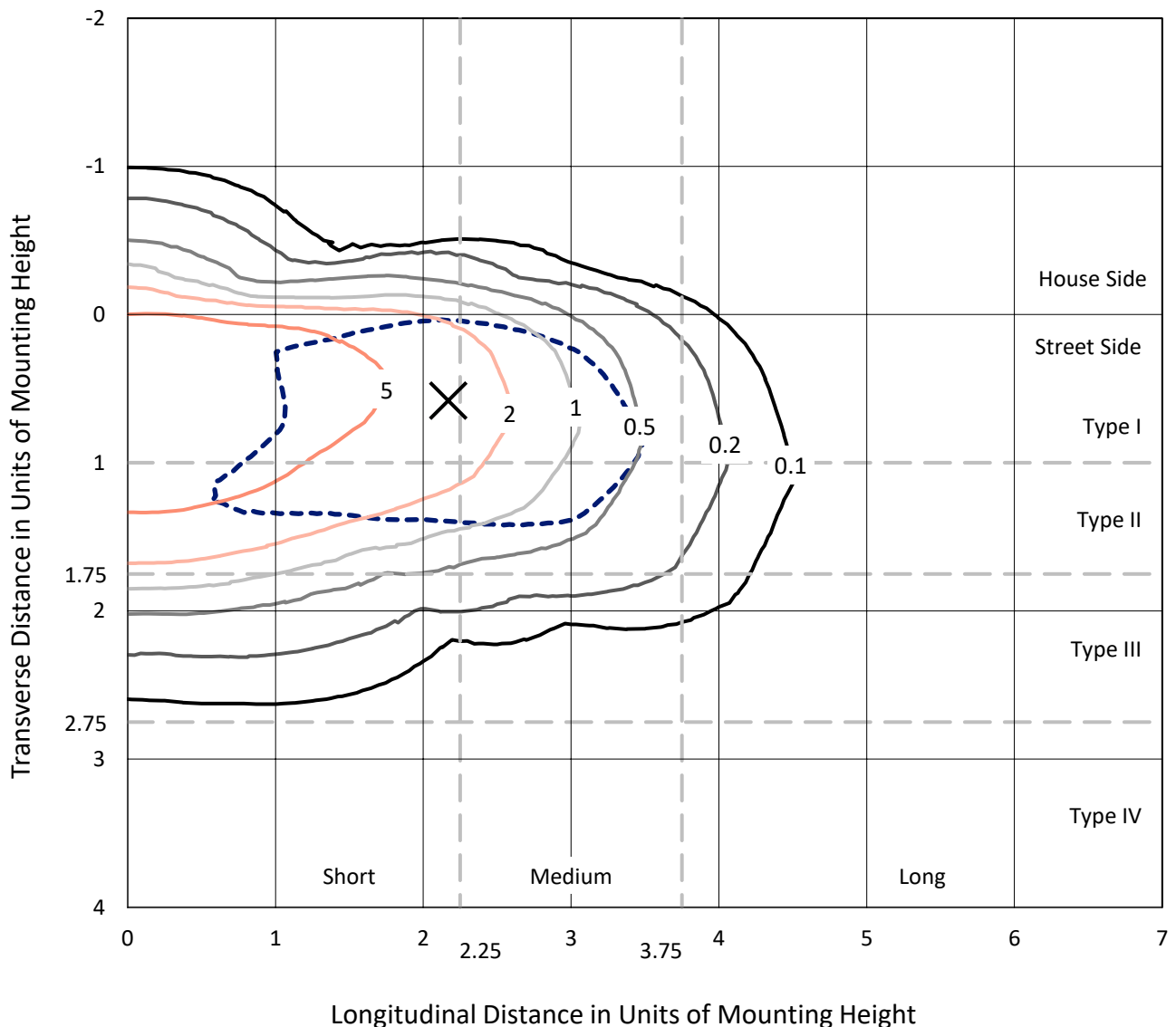
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651470
 CATALOG NUMBER: GALN-SA6D-840-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

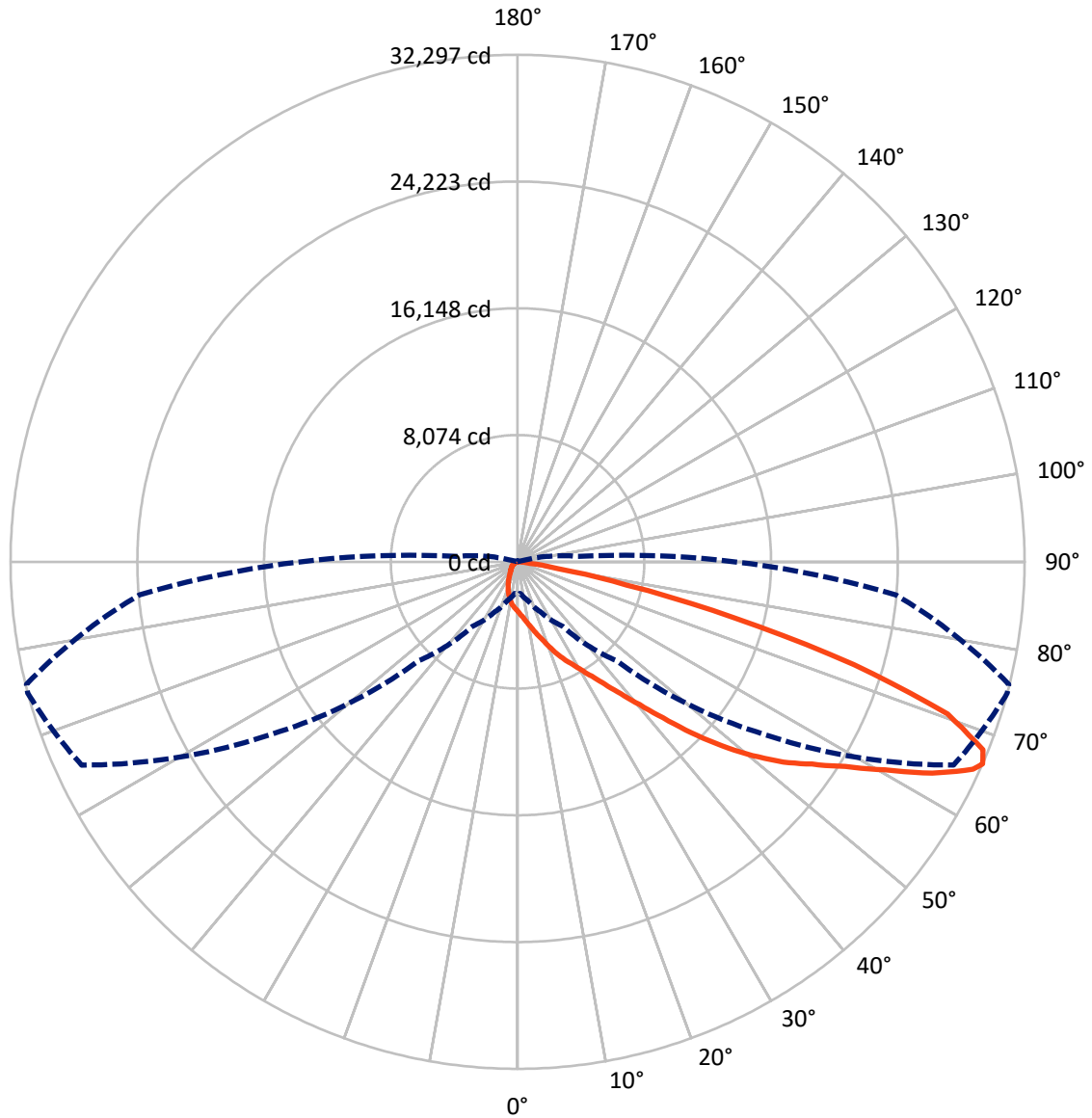
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P651470
CATALOG NUMBER: GALN-SA6D-840-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P651470
 CATALOG NUMBER: GALN-SA6D-840-U-T2-HSS

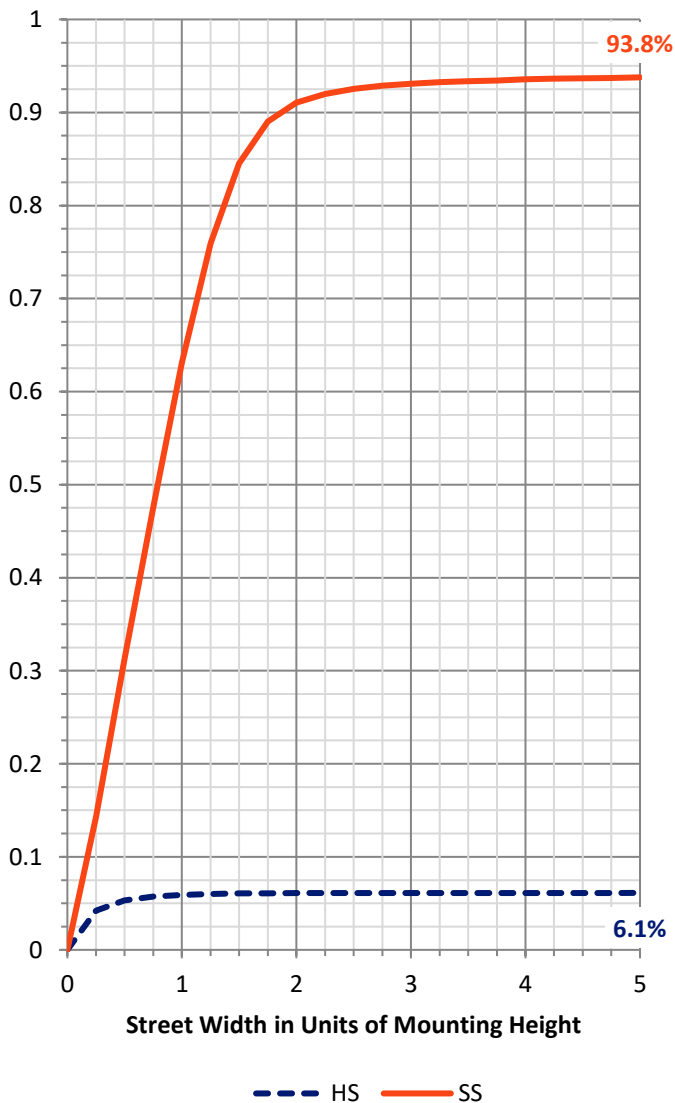
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1780.5	0.0	1780.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	27059.9	0.0	27059.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	28840.4	0.0	28840.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.2	1.1
10°-20°	895.3	3.1
20°-30°	1546.0	5.4
30°-40°	2788.6	9.7
40°-50°	5037.7	17.5
50°-60°	7853.9	27.2
60°-70°	7460.8	25.9
70°-80°	2796.1	9.7
80°-90°	157.8	0.5
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°	28840.4	100.0
0°-180°	28840.4	100.0

Coefficient of Utilization

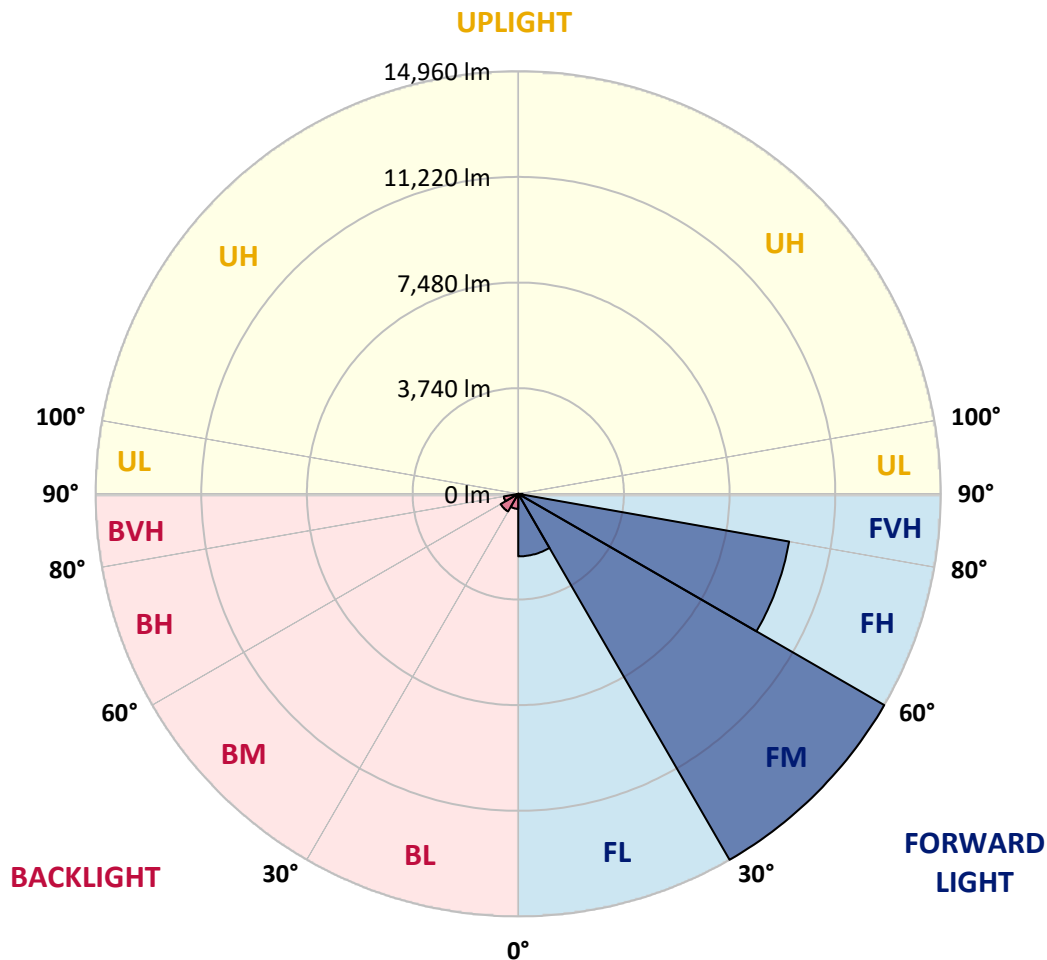


REPORT NUMBER: P651470
 CATALOG NUMBER: GALN-SA6D-840-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2213.8	7.7			
FM (30°-60°)	14959.5	51.9			
FH (60°-80°)	9737.1	33.8			G4/12000
FVH (80°-90°)	149.6	0.5			G2/225
BL (0°-30°)	531.7	1.8	B2/1000		
BM (30°-60°)	720.7	2.5	B1/1000		
BH (60°-80°)	519.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.2	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 II Short





REPORT NUMBER: P651470
 CATALOG NUMBER: GALN-SA6D-840-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0
2.5°	3768.2	3721.3	3736.1	3714.9	3665.8	3593.3	3529.3	3437.6	3345.9	3330.9	3228.6
5°	4265.0	4252.3	4235.2	4173.3	4139.2	4028.3	3896.1	3738.3	3548.5	3514.4	3328.8
7.5°	4604.1	4597.7	4606.2	4574.2	4544.3	4444.2	4303.4	4088.0	3793.8	3774.6	3465.3
10°	4715.0	4732.1	4764.0	4815.2	4862.2	4830.1	4723.5	4454.8	4111.5	4056.1	3621.0
12.5°	4651.0	4670.2	4746.9	4883.4	5034.9	5122.3	5079.6	4883.4	4448.4	4403.6	3795.9
15°	4486.8	4510.3	4619.0	4830.1	5101.0	5348.3	5455.0	5314.2	4840.8	4768.3	4007.0
17.5°	4243.7	4277.8	4433.5	4712.9	5083.9	5510.4	5811.1	5764.2	5258.8	5190.6	4237.3
20°	4060.3	4085.9	4218.1	4538.0	5011.4	5600.0	6150.1	6282.4	5774.8	5657.6	4508.1
22.5°	4181.9	4190.4	4235.2	4427.1	4881.3	5623.4	6448.7	6821.9	6322.9	6218.4	4789.6
25°	4776.8	4691.5	4646.8	4604.1	4853.6	5602.1	6719.5	7384.9	6868.8	6757.9	5069.0
27.5°	5715.1	5676.8	5450.7	5147.8	5090.3	5629.8	6898.6	7918.0	7382.7	7263.3	5341.9
30°	6736.6	6670.5	6531.9	6088.3	5642.6	5826.0	7028.7	8436.2	7990.5	7832.7	5591.5
32.5°	7674.9	7717.5	7510.7	7054.3	6538.3	6244.0	7197.2	9001.3	8687.9	8491.7	5881.4
35°	8768.9	8854.2	8536.4	8099.3	7495.7	6998.9	7525.6	9639.0	9572.9	9325.5	6329.3
37.5°	9879.9	9931.1	9737.0	9122.9	8579.1	7958.6	8144.1	10425.9	10662.5	10451.4	6864.6
40°	10814.0	10884.3	10741.4	10195.5	9615.5	9069.6	9041.8	11283.1	11959.1	11741.6	7662.1
42.5°	11528.3	11581.7	11586.0	11199.9	10677.5	10430.1	10187.0	12377.1	13584.1	13332.5	8587.6
45°	12430.4	12507.2	12462.4	12200.1	11809.8	11765.1	11639.3	13699.2	15529.0	15211.2	9788.2
47.5°	13825.0	13876.2	13765.3	13456.2	13059.5	13129.9	13055.3	15181.3	17512.1	17239.2	11031.5
50°	14793.2	14878.6	15036.3	15160.0	14872.2	14612.0	14390.2	16565.3	19395.2	19150.0	12302.5
52.5°	14782.6	14923.3	15422.3	16045.0	16674.1	16595.2	15957.6	18094.4	21192.9	20890.1	13496.7
55°	13786.7	14059.7	14793.2	15897.8	17640.1	18508.1	18218.1	19864.3	22745.3	22540.7	14880.7
57.5°	11730.9	11897.3	12916.6	14460.6	17100.6	19408.0	20836.8	22263.5	24607.1	24511.1	17030.2
60°	7890.3	7964.9	9276.4	11185.0	14558.6	18510.2	22756.0	25165.7	26899.5	26852.5	19540.2
62.5°	4521.0	4552.9	5504.0	7114.0	10359.8	15686.8	22918.1	28746.2	29648.3	29673.9	22444.7
65°	2433.2	2450.3	3217.9	4175.5	6303.7	11180.8	20608.6	30708.2	31870.4	31919.4	24244.5
66°	2100.6	2019.5	2561.2	3559.2	5015.6	8899.0	19147.8	30637.8	32296.9	32243.6	24180.5
67.5°	1597.2	1669.7	2045.1	2736.0	3717.0	6327.2	15808.3	29275.1	31972.7	31806.4	23197.5
70°	1143.0	1172.9	1456.5	1951.3	2531.3	3471.7	10101.7	24314.9	29059.7	28835.8	20209.8
72.5°	737.8	769.9	1032.2	1411.7	1829.7	1895.8	5655.4	17567.6	22404.2	22372.2	15219.7
75°	526.7	556.6	682.4	1010.8	1375.5	1172.9	2723.2	11839.7	14243.0	14147.0	9415.1
77.5°	381.7	396.6	456.3	661.1	983.1	840.2	1262.4	6322.9	7090.6	7425.4	4160.5
80°	219.7	232.5	317.7	403.0	665.3	573.6	603.5	2537.7	2616.6	2490.8	1300.9
82.5°	108.7	123.7	189.8	275.1	415.9	386.0	277.2	763.5	806.1	784.7	328.4
85°	25.6	32.0	106.6	181.2	202.6	172.7	134.3	223.9	277.2	270.8	125.8
87.5°	2.1	4.3	38.3	32.0	34.1	57.6	46.9	57.6	89.6	83.2	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651470
 CATALOG NUMBER: GALN-SA6D-840-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0	3154.0
2.5°	3181.7	3141.2	3023.9	2908.8	2812.8	2712.6	2620.9	2567.6	2546.2	2522.7	2533.4
5°	3226.5	3128.4	2891.7	2687.0	2486.5	2315.9	2179.5	2092.0	2049.3	2043.0	2032.3
7.5°	3286.2	3117.8	2750.9	2431.1	2168.8	1979.0	1823.3	1697.5	1659.1	1625.0	1597.2
10°	3358.7	3098.6	2576.1	2162.4	1883.0	1644.2	1439.5	1290.2	1213.4	1192.0	1207.0
12.5°	3435.5	3062.2	2392.6	1915.0	1593.0	1288.1	1098.3	1023.6	1002.3	993.7	995.9
15°	3512.3	3017.5	2200.7	1676.1	1268.8	1027.9	940.4	921.2	912.7	908.4	904.2
17.5°	3582.7	2945.0	1985.3	1443.7	1027.9	878.6	846.6	829.6	812.5	806.1	795.4
20°	3665.8	2861.8	1791.3	1183.5	870.1	795.4	757.1	725.0	699.5	682.4	680.3
22.5°	3744.7	2755.2	1588.7	980.9	793.3	714.4	652.5	618.4	588.5	567.3	573.6
25°	3787.4	2625.1	1407.5	855.1	722.9	633.4	565.2	522.4	490.5	479.8	477.7
27.5°	3787.4	2465.2	1230.5	782.6	658.9	560.9	490.5	449.9	428.7	413.7	415.9
30°	3757.5	2288.2	1066.2	727.2	603.5	496.9	430.8	394.5	377.4	366.8	364.7
32.5°	3734.0	2119.7	925.5	673.9	545.9	441.4	383.8	356.2	339.1	328.4	328.4
35°	3770.3	1974.7	816.8	620.6	492.6	398.8	347.6	322.0	304.9	296.5	294.3
37.5°	3866.2	1842.5	733.6	563.0	443.5	362.6	322.0	292.2	275.1	264.4	260.2
40°	4103.0	1767.9	671.7	509.6	396.6	332.7	292.2	264.4	243.1	232.5	230.3
42.5°	4482.5	1770.0	612.0	460.6	360.4	307.0	266.6	234.6	211.1	200.5	198.3
45°	5054.1	1851.0	565.2	413.7	328.4	279.4	238.8	204.7	183.4	172.7	172.7
47.5°	5738.6	2008.8	524.6	373.2	298.6	253.7	211.1	177.0	155.7	147.2	147.2
50°	6480.7	2213.5	484.1	330.5	273.0	226.1	181.2	153.6	136.5	130.1	130.1
52.5°	7237.7	2460.9	443.5	296.5	245.2	196.2	155.7	136.5	121.5	117.3	115.1
55°	8231.5	2776.6	400.9	260.2	215.4	168.5	138.6	119.4	102.3	96.0	93.9
57.5°	9760.5	3252.1	354.0	228.2	177.0	140.8	119.4	100.2	81.1	70.4	68.2
60°	11605.1	3832.1	304.9	200.5	142.9	115.1	96.0	76.8	59.7	46.9	44.7
62.5°	13332.5	4201.0	258.0	168.5	113.0	87.5	68.2	57.6	42.6	29.9	27.8
65°	14095.9	4077.3	213.3	136.5	89.6	61.8	44.7	40.5	25.6	12.8	10.7
66°	13842.1	3894.0	196.2	123.7	81.1	53.3	38.3	34.1	19.2	6.4	6.4
67.5°	13093.6	3461.1	170.6	106.6	70.4	42.6	29.9	25.6	10.7	2.1	0.0
70°	11219.1	2800.0	134.3	78.9	51.2	29.9	17.1	12.8	6.4	0.0	0.0
72.5°	8617.5	2085.6	106.6	59.7	36.2	17.1	8.5	4.3	6.4	0.0	0.0
75°	5280.1	1192.0	83.2	44.7	23.5	10.7	6.4	0.0	6.4	2.1	0.0
77.5°	2343.6	535.3	55.4	29.9	17.1	8.5	4.3	0.0	4.3	2.1	0.0
80°	592.8	174.8	32.0	21.4	12.8	6.4	2.1	0.0	4.3	4.3	2.1
82.5°	162.1	64.0	23.5	17.1	10.7	6.4	2.1	0.0	4.3	4.3	4.3
85°	64.0	29.9	21.4	17.1	12.8	6.4	2.1	0.0	4.3	4.3	4.3
87.5°	29.9	21.4	21.4	19.2	14.9	6.4	2.1	0.0	4.3	2.1	4.3
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)