

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: P651527

Luminaire Tested: **GALN-SA7D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39820.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

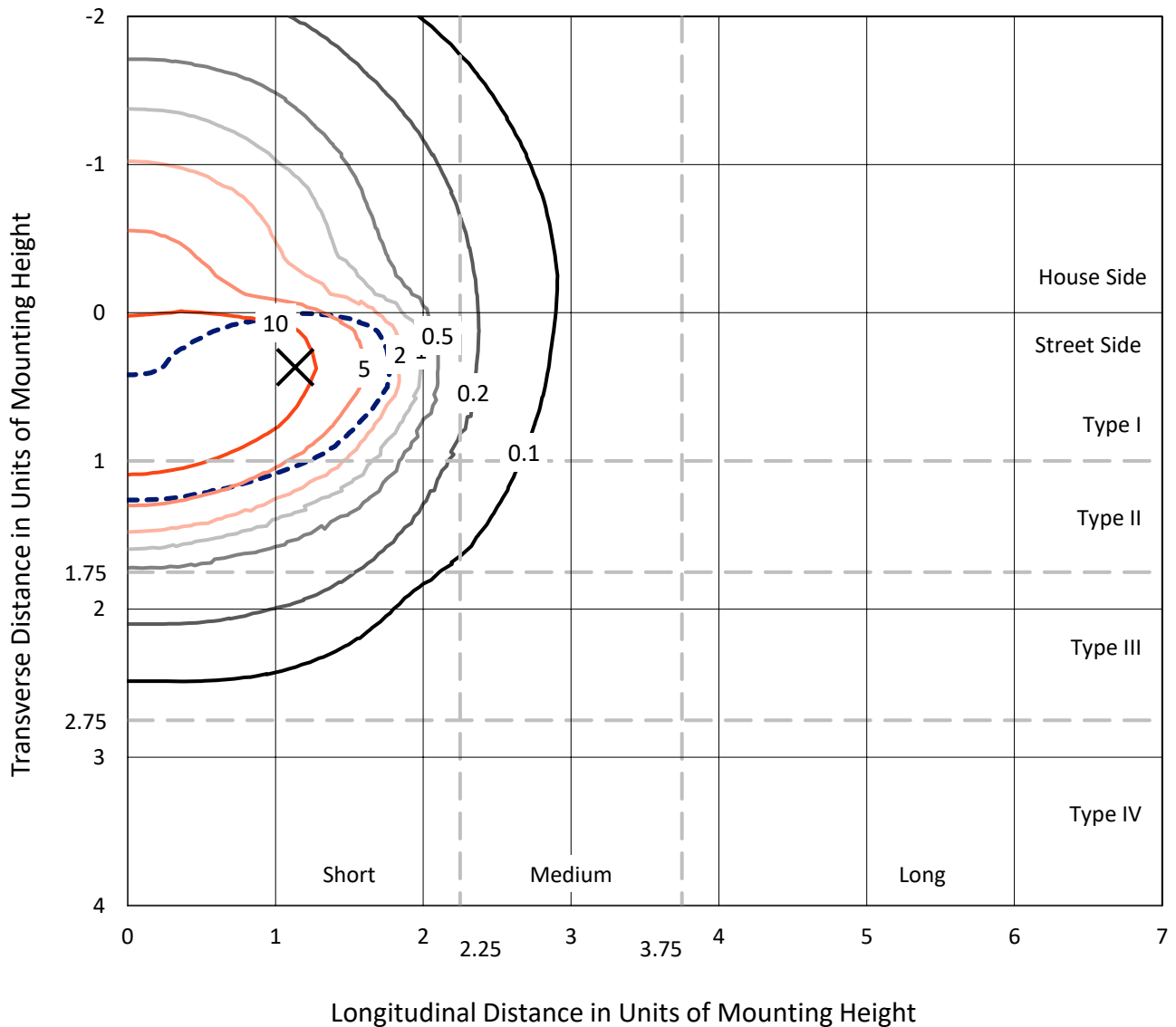
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651527
 CATALOG NUMBER: GALN-SA7D-840-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

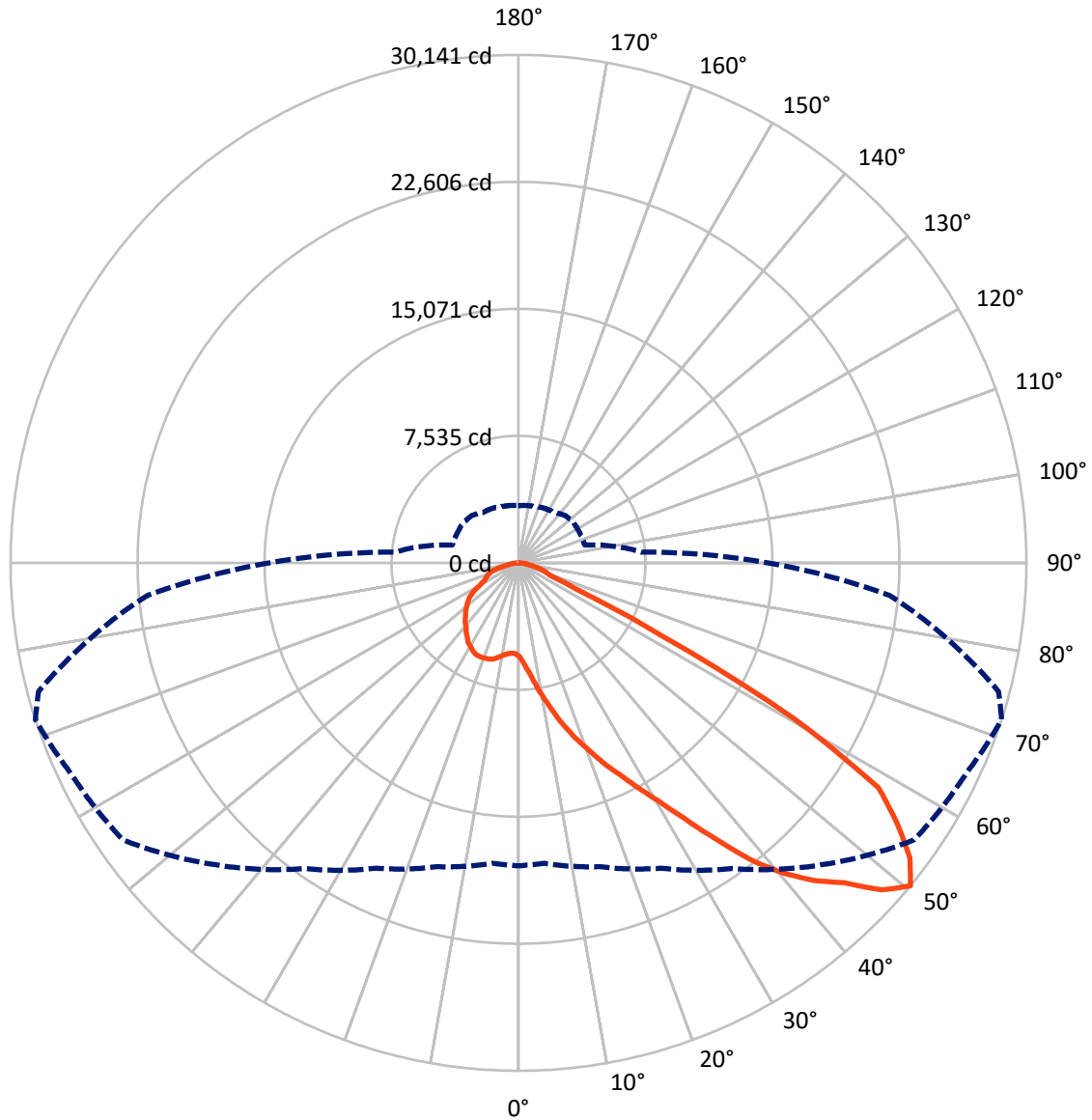
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

REPORT NUMBER: P651527
CATALOG NUMBER: GALN-SA7D-840-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA7D-840-U-T2R-GRSWH

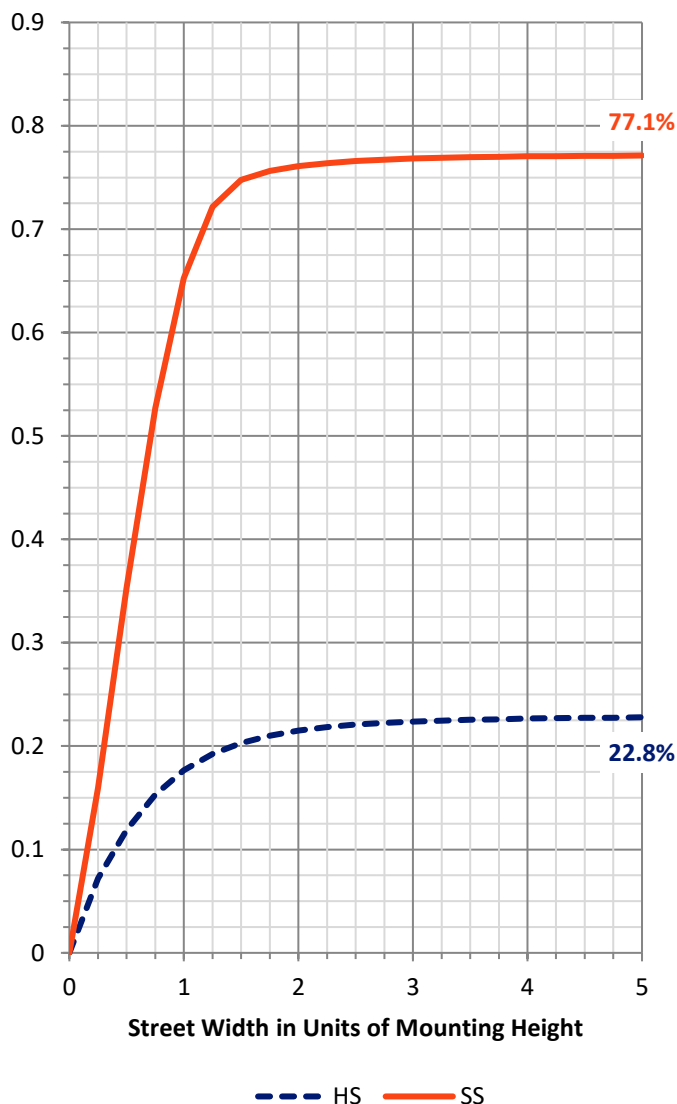
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9123.1	0.0	9123.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	30697.4	0.0	30697.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	39820.5	0.0	39820.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.0	1.6
10°-20°	2437.5	6.1
20°-30°	4726.2	11.9
30°-40°	7829.7	19.7
40°-50°	10955.5	27.5
50°-60°	9242.4	23.2
60°-70°	2817.1	7.1
70°-80°	988.3	2.5
80°-90°	171.8	0.4
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°	39820.5	100.0
0°-180°	39820.5	100.0

Coefficient of Utilization



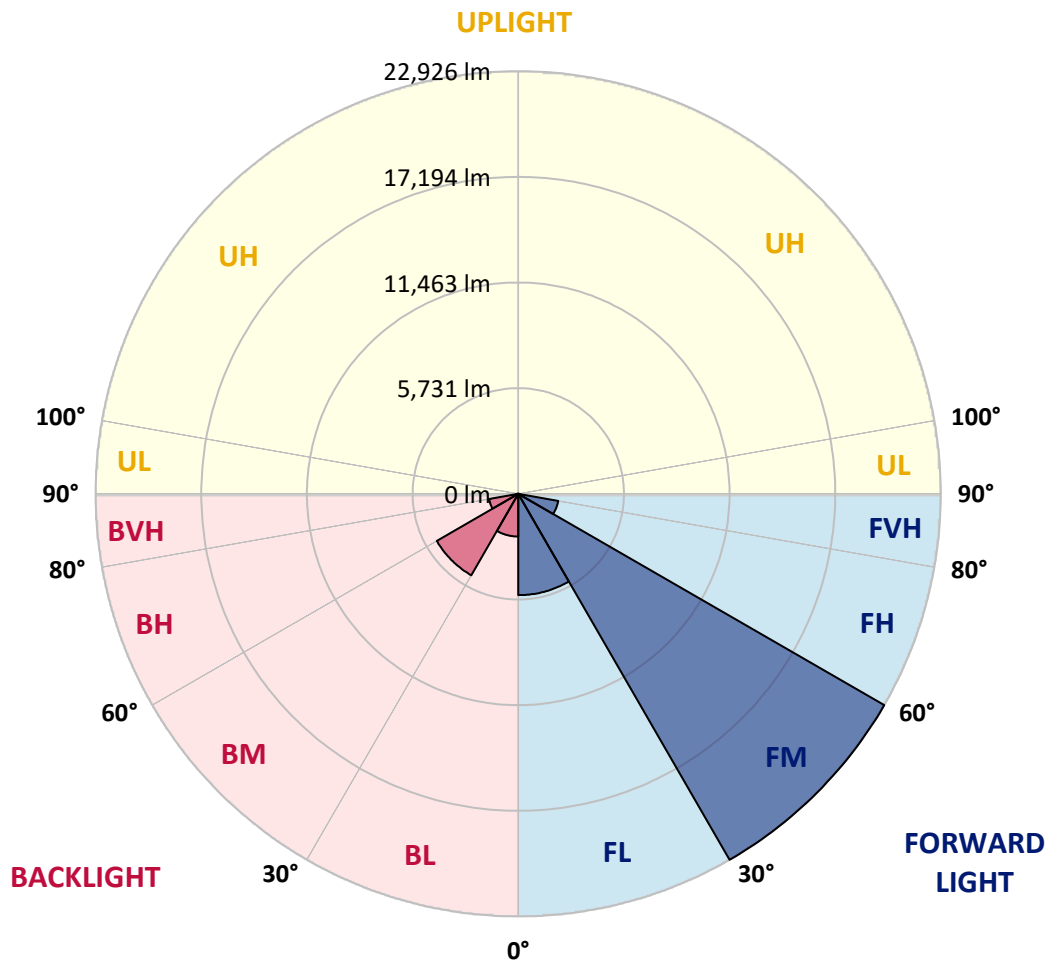
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 CATALOG NUMBER: GALN-SA7D-840-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5496.7	13.8			
FM (30°-60°)	22925.7	57.6			
FH (60°-80°)	2198.0	5.5			G2/5000
FVH (80°-90°)	77.0	0.2			G1/100
BL (0°-30°)	2319.1	5.8	B3/2500		
BM (30°-60°)	5101.8	12.8	B4/8500		
BH (60°-80°)	1607.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	94.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P651527

CATALOG NUMBER: GALN-SA7D-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4
2.5°	7130.0	7085.7	6952.6	6908.2	6750.5	6464.8	6366.2	6075.6	5952.3	5839.0	5705.9
5°	9017.2	8810.2	8795.4	8544.1	8179.6	7967.6	7337.0	6913.2	6523.9	6326.8	5962.2
7.5°	10219.5	10224.4	10224.4	10017.5	9726.8	9189.7	8623.0	7859.2	7272.9	6982.2	6361.3
10°	11362.7	11264.1	11209.9	11190.2	10993.0	10470.8	9864.7	8918.6	8115.5	7775.5	6661.9
12.5°	12170.8	12086.9	12210.1	12146.1	12003.2	11663.2	11091.6	10012.5	9007.4	8549.1	7144.8
15°	12555.1	12614.2	12712.7	12890.2	12826.1	12698.0	12067.3	11136.0	9968.2	9450.8	7573.5
17.5°	13146.3	12983.8	13102.0	13323.8	13501.2	13442.0	13082.3	11949.0	10919.2	10283.6	8150.0
20°	13560.3	13466.7	13525.8	13782.0	13915.0	14250.2	14062.9	13013.3	11830.8	11160.7	8829.9
22.5°	14742.9	14604.9	14412.7	14452.2	14501.4	14737.9	14782.3	14181.1	12890.2	12180.6	9475.5
25°	16201.4	16073.3	15846.6	15615.0	15472.1	15427.8	15580.5	15097.6	13905.2	13171.0	10170.2
27.5°	17807.8	17590.9	17448.0	16970.0	16585.7	16526.6	16452.7	16191.5	15107.5	14314.2	10953.7
30°	19369.7	19197.3	19005.1	18241.3	17842.2	17778.2	17413.5	17487.4	16413.3	15531.3	11840.6
32.5°	20552.3	20567.1	20128.5	19552.0	19177.6	18837.6	18704.5	18916.4	18088.6	17379.0	12831.1
35°	21508.2	21552.6	21133.7	20611.4	20207.4	20443.9	20384.7	20483.3	20089.1	19221.9	13984.1
37.5°	22439.5	22217.8	21769.4	21518.1	21306.2	21695.4	22198.0	22281.8	22355.7	21335.7	15324.3
40°	22592.3	22612.0	22350.8	22528.2	22262.1	22848.5	24016.3	23907.9	24208.4	23316.6	16777.9
42.5°	22375.5	22419.8	22523.2	22774.5	23415.1	24119.7	25854.2	25410.7	25775.4	24982.1	18192.1
45°	22020.7	21838.3	21966.5	22922.4	24031.1	25597.9	27534.4	27189.5	27071.3	26406.1	19877.2
47.5°	20325.6	20512.9	20912.0	22089.6	23755.1	25854.2	28726.9	28648.1	29002.8	28534.7	21409.7
50°	17975.3	17901.4	18670.0	19995.5	22143.9	25351.6	28662.9	29377.3	30141.1	29490.7	22094.6
52.5°	13461.7	13855.9	14516.2	16161.9	19226.9	22612.0	27263.5	28455.9	29076.7	28938.8	21542.7
55°	8509.7	8627.9	9027.0	10983.2	13742.6	18147.7	23370.8	26135.1	27243.8	27761.2	21035.2
57.5°	4134.1	3912.4	4400.2	5972.0	7938.1	12205.3	18024.6	22764.7	25174.2	26110.4	19931.4
60°	2158.2	2241.9	2434.2	2995.9	4104.6	6336.7	11234.5	15171.6	18852.4	20291.1	15107.5
62.5°	1788.6	1818.2	1946.3	2227.2	2729.8	3646.3	5735.5	7396.1	9613.4	10909.3	8593.4
65°	1517.7	1532.5	1670.4	1857.6	2177.9	2567.2	2951.5	3089.5	3739.9	3838.5	3055.0
67.5°	1266.4	1281.1	1428.9	1606.3	1813.3	1916.8	2015.3	2005.4	2079.4	2049.8	2044.9
70°	975.6	990.4	1143.2	1330.4	1433.9	1374.8	1680.2	1749.2	1778.8	1803.4	1842.9
72.5°	704.6	734.2	852.4	985.5	931.3	1069.2	1384.6	1488.1	1527.5	1542.3	1591.6
75°	512.4	522.3	551.9	512.4	591.3	744.0	975.6	1103.7	1153.0	1167.8	1241.7
77.5°	226.6	231.6	236.5	295.6	379.4	463.1	581.5	684.9	753.9	773.6	793.3
80°	118.2	123.2	152.7	202.0	271.0	340.0	423.8	482.9	527.2	532.2	551.9
82.5°	73.9	78.8	108.4	142.9	192.2	251.3	310.4	359.7	394.2	399.1	404.0
85°	34.5	44.3	64.1	88.7	128.1	162.6	167.5	142.9	152.7	157.7	147.8
87.5°	9.8	14.8	19.7	14.8	19.7	19.7	24.6	29.6	29.6	29.6	34.5
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: P651527

CATALOG NUMBER: GALN-SA7D-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4	5543.4
2.5°	5632.0	5587.7	5415.3	5351.2	5183.7	5213.2	5124.5	5119.6	5099.9	5094.9	5090.1
5°	5770.0	5632.0	5425.1	5267.4	5173.8	5163.9	5099.9	5099.9	5119.6	5134.4	5099.9
7.5°	5996.7	5839.0	5489.1	5341.4	5257.6	5242.8	5198.5	5163.9	5208.3	5193.5	5154.1
10°	6257.8	5981.9	5612.3	5484.2	5346.2	5311.8	5311.8	5326.6	5252.6	5277.3	5237.8
12.5°	6548.5	6179.0	5770.0	5622.2	5459.6	5439.8	5430.0	5321.6	5361.0	5341.4	5242.8
15°	6918.1	6405.6	5972.0	5720.7	5582.8	5494.1	5366.0	5346.2	5321.6	5272.3	5228.0
17.5°	7317.2	6652.1	6065.6	5750.3	5543.4	5479.3	5380.7	5277.3	5203.4	5213.2	5178.7
20°	7657.2	6878.7	6100.2	5779.9	5513.8	5390.6	5237.8	5173.8	5094.9	5090.1	5085.1
22.5°	8061.2	7184.2	6149.4	5701.1	5425.1	5297.0	5193.5	5080.1	5026.0	4957.0	4991.5
25°	8544.1	7302.5	6159.3	5656.7	5361.0	5134.4	5080.1	4957.0	4937.3	4838.7	4858.5
27.5°	8894.0	7366.5	6080.4	5518.7	5213.2	5040.8	4942.2	4853.5	4819.0	4745.1	4725.4
30°	9362.1	7465.1	5912.9	5346.2	5065.4	4873.3	4814.1	4794.4	4695.8	4617.0	4607.2
32.5°	9894.3	7529.1	5804.5	5168.9	4912.6	4764.9	4794.4	4700.8	4577.6	4508.6	4488.9
35°	10318.1	7553.8	5533.5	4966.9	4809.2	4715.6	4681.1	4661.3	4484.0	4419.9	4370.6
37.5°	10963.5	7499.5	5306.9	4824.0	4695.8	4661.3	4631.8	4498.8	4296.8	4203.1	4134.1
40°	11717.4	7484.7	5016.1	4621.9	4587.4	4626.8	4538.1	4331.2	4050.3	3946.9	3897.6
42.5°	12441.8	7588.3	4833.8	4513.6	4469.2	4484.0	4360.8	4050.3	3912.4	3853.2	3774.4
45°	13653.9	7805.1	4533.2	4346.0	4326.3	4316.4	4168.6	3843.4	3764.6	3690.6	3675.8
47.5°	14747.8	7662.2	4341.1	4173.5	4193.2	4139.1	3823.7	3720.2	3631.5	3557.6	3533.0
50°	14811.9	7322.2	4070.0	4040.5	4045.4	3951.8	3651.2	3582.2	3468.9	3419.7	3385.1
52.5°	14476.8	6765.3	3818.7	3828.6	3843.4	3690.6	3439.4	3390.1	3296.5	3227.5	3207.7
55°	13535.6	5898.1	3572.4	3611.8	3651.2	3360.5	3281.7	3158.5	3084.5	2986.1	2990.9
57.5°	11924.4	4750.1	3227.5	3291.5	3375.3	3055.0	2995.9	2843.1	2734.7	2655.9	2646.0
60°	7992.3	3380.2	2710.1	2734.7	2922.0	2793.9	2788.9	2636.2	2488.4	2419.4	2379.9
62.5°	4715.6	2582.0	2340.5	2315.9	2311.0	2384.9	2508.0	2453.9	2261.7	2128.7	2168.1
65°	2468.7	2232.1	2177.9	2094.2	2044.9	2025.2	2118.8	2143.5	2015.3	1872.4	1862.6
67.5°	2074.4	2074.4	2030.1	2000.6	1931.5	1847.8	1788.6	1709.8	1690.1	1650.7	1601.4
70°	1887.2	1936.5	1921.7	1852.7	1793.6	1700.0	1547.2	1419.1	1295.9	1251.6	1281.1
72.5°	1645.8	1695.0	1695.0	1660.6	1581.7	1438.8	1291.0	1143.2	1039.7	960.8	951.0
75°	1266.4	1291.0	1350.1	1310.7	1207.3	1118.5	965.8	813.0	714.5	640.6	625.8
77.5°	808.1	847.5	847.5	842.6	768.7	684.9	586.3	477.9	404.0	349.9	335.1
80°	537.1	561.7	581.5	561.7	512.4	448.4	374.5	300.6	246.4	202.0	192.2
82.5°	394.2	423.8	438.6	418.8	369.5	320.3	266.1	211.8	157.7	123.2	113.4
85°	152.7	157.7	177.4	211.8	207.0	202.0	162.6	118.2	88.7	64.1	59.1
87.5°	39.4	34.5	39.4	39.4	34.5	29.6	29.6	29.6	29.6	14.8	19.7
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)