

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: P651510

Luminaire Tested: **GALN-SA7D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651510
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-SA7D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 37485 lumens
Efficiency: N/A
Efficacy: 86.6 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

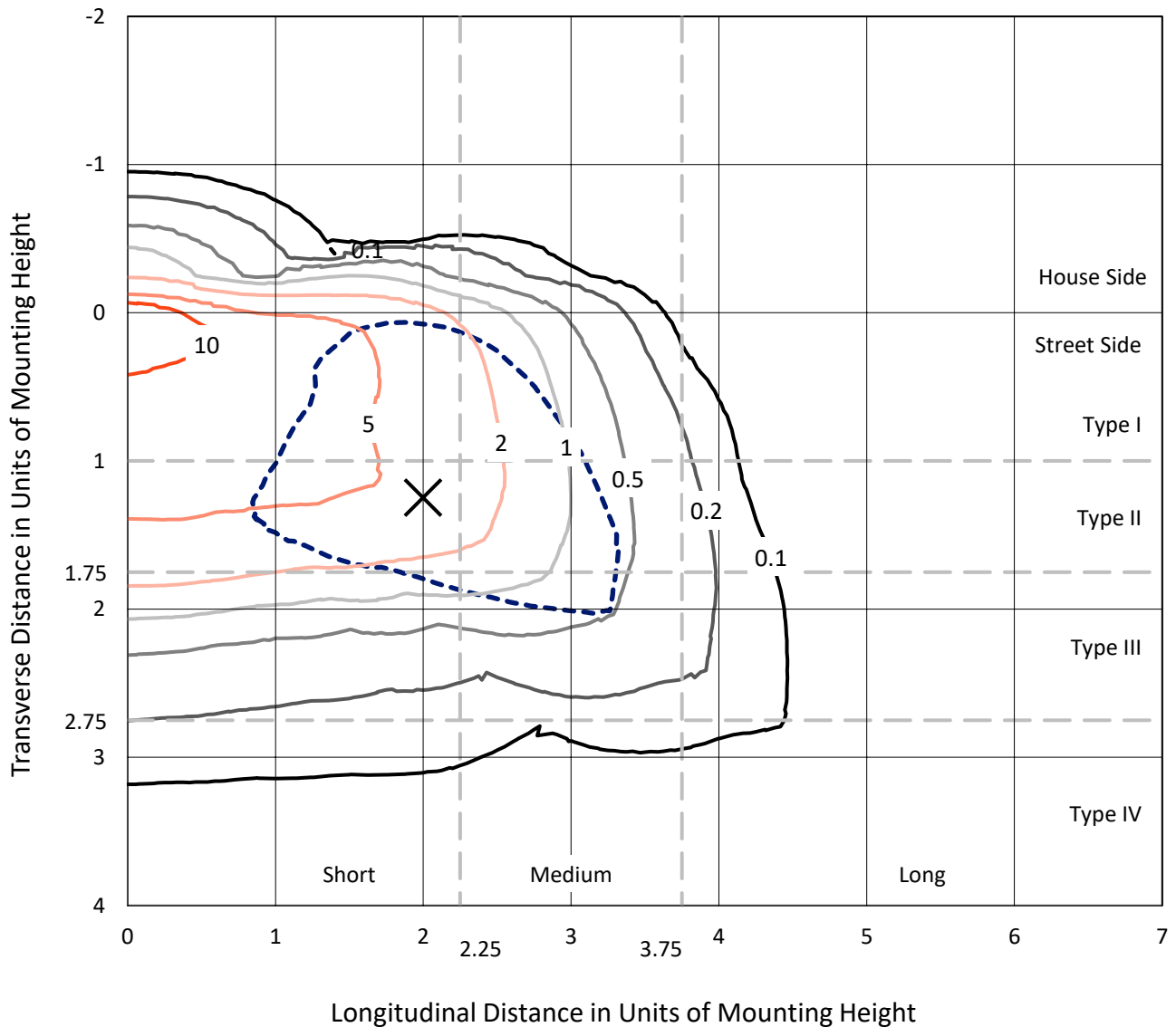
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

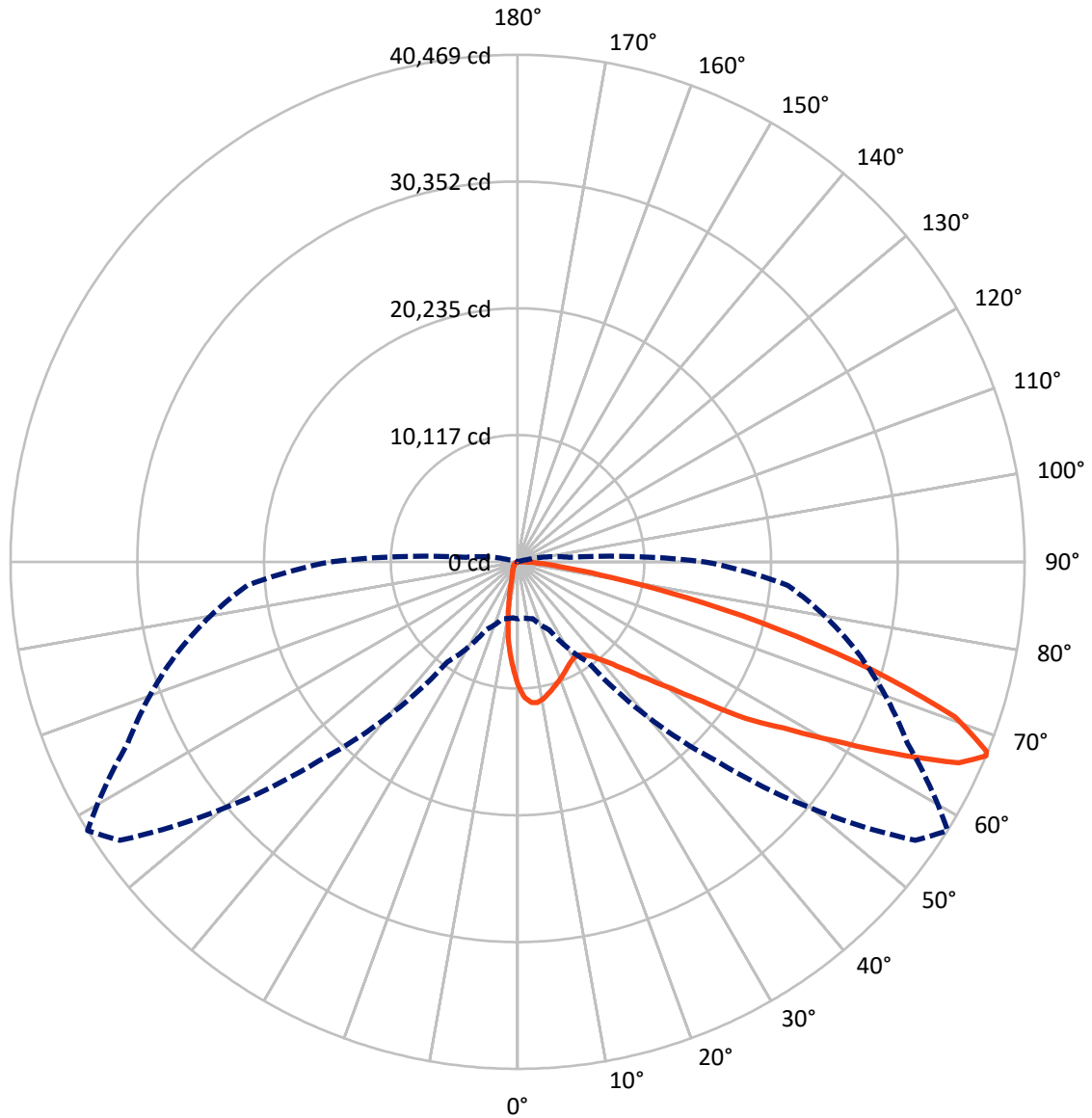
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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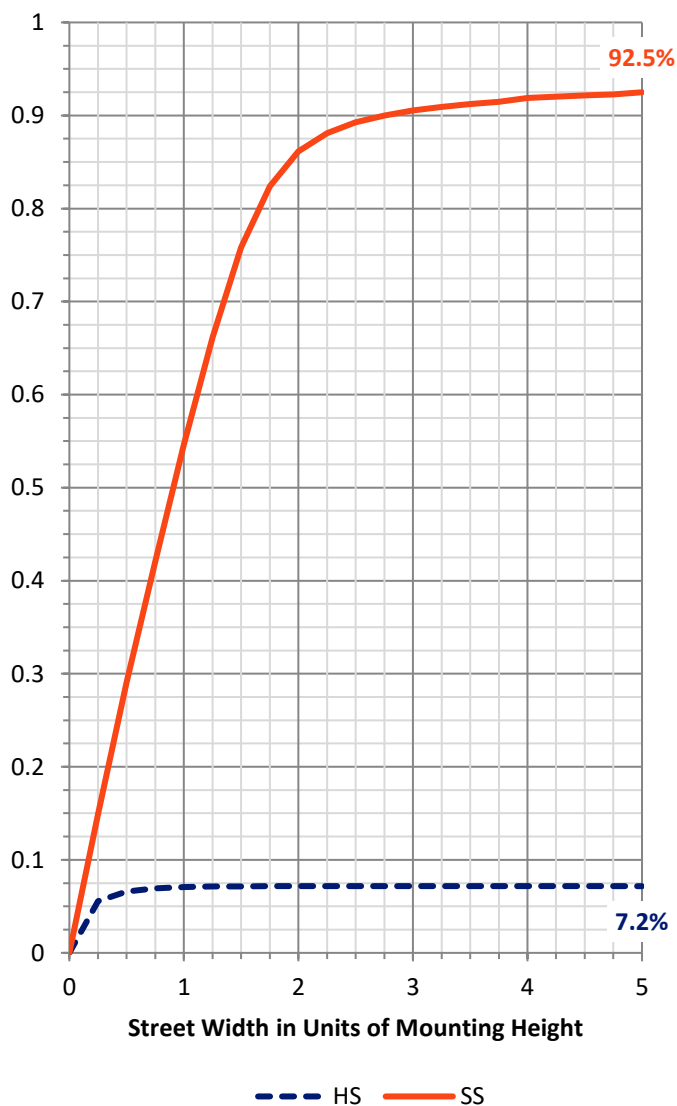
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2705.1	0.0	2705.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34779.9	0.0	34779.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	37485.0	0.0	37485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.4	2.2
10°-20°	1741.5	4.6
20°-30°	2359.9	6.3
30°-40°	3273.1	8.7
40°-50°	5220.1	13.9
50°-60°	9023.5	24.1
60°-70°	10307.6	27.5
70°-80°	4297.3	11.5
80°-90°	455.6	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°	37485.0	100.0
0°-180°	37485.0	100.0

Coefficient of Utilization



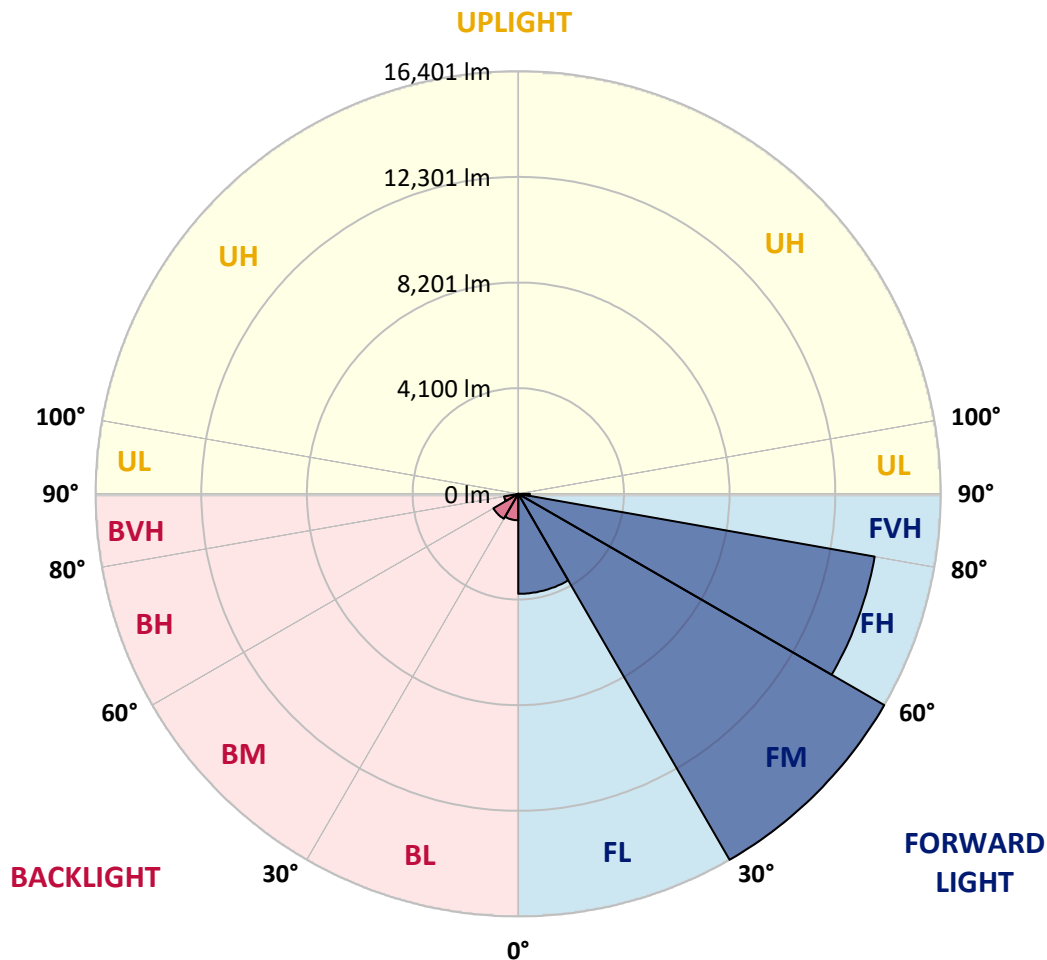
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3880.6	10.4			
FM (30°-60°)	16401.3	43.8			
FH (60°-80°)	14045.7	37.5			G5
FVH (80°-90°)	452.3	1.2			G3/500
BL (0°-30°)	1027.2	2.7	B3/2500		
BM (30°-60°)	1115.4	3.0	B2/2500		
BH (60°-80°)	559.2	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.3	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°	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9
2.5°	11532.5	11550.1	11484.9	11432.4	11297.1	11151.8	10958.9	10856.2	10680.9	10377.8	10042.1
5°	11803.1	11825.6	11815.6	11803.1	11750.5	11610.3	11364.8	11274.5	11016.6	10523.1	9916.9
7.5°	11202.0	11284.5	11294.6	11392.3	11484.9	11497.5	11404.8	11337.2	11099.2	10520.6	9694.0
10°	10405.4	10460.4	10540.6	10653.4	10876.3	11061.7	11151.8	11141.8	11004.1	10442.9	9433.5
12.5°	9601.3	9631.4	9754.1	9946.9	10220.0	10535.6	10776.1	10823.7	10826.2	10350.3	9215.5
15°	8910.0	8897.4	8992.6	9215.5	9598.8	9994.5	10425.4	10500.6	10620.8	10260.1	9012.7
17.5°	8318.8	8383.9	8398.9	8644.4	8997.6	9511.1	10059.7	10192.4	10432.9	10182.4	8844.8
20°	7953.1	7988.2	8020.7	8158.5	8476.6	9017.6	9716.5	9899.4	10257.6	10112.3	8656.9
22.5°	7845.4	7867.9	7840.3	7882.9	8108.3	8589.3	9343.3	9586.2	10089.7	10047.2	8504.1
25°	7928.0	7950.6	7885.5	7835.3	7913.0	8241.1	8982.6	9278.2	9954.5	10034.6	8388.9
27.5°	8128.4	8171.0	8080.8	7990.6	7945.5	8053.2	8699.6	9042.7	9861.8	10094.8	8336.3
30°	8441.5	8466.6	8398.9	8288.7	8186.0	8078.3	8551.7	8879.9	9836.8	10235.1	8331.3
32.5°	8782.1	8834.8	8797.2	8724.5	8591.8	8336.3	8594.3	8884.9	9896.9	10437.9	8393.9
35°	9203.0	9263.1	9298.2	9283.1	9112.8	8794.7	8864.8	9110.3	10057.2	10811.1	8564.2
37.5°	9616.3	9668.9	9866.8	9934.4	9784.1	9483.5	9390.9	9553.7	10410.4	11299.6	8872.4
40°	10089.7	10159.9	10437.9	10695.9	10623.3	10307.6	10137.3	10272.6	10951.4	12036.1	9456.0
42.5°	10543.1	10668.3	11091.7	11547.6	11615.2	11262.0	11149.3	11194.4	11753.0	13095.6	10270.1
45°	11186.9	11304.6	11850.7	12469.4	12787.5	12512.0	12396.8	12389.3	12852.7	14586.1	11590.2
47.5°	12116.2	12221.4	12865.2	13476.4	14042.5	14080.0	13862.1	13937.3	14235.4	16329.4	13208.3
50°	13255.9	13503.9	13927.2	14563.5	15320.0	15931.1	15998.8	15898.6	16154.1	18348.4	15152.1
52.5°	14911.7	15006.9	15395.1	15918.6	16805.4	17842.4	18646.5	18508.7	18428.6	20272.1	17115.9
55°	16146.6	16274.4	16878.0	17596.9	18896.9	20264.7	22008.0	22055.6	21043.7	22120.8	19037.2
57.5°	15773.4	15968.7	16883.1	18328.3	21186.5	23686.3	24983.9	25016.5	23463.4	23916.8	21206.5
60°	13857.1	13949.8	15259.9	17188.6	21381.8	27393.6	29204.7	28941.7	25925.8	25925.8	23122.7
62.5°	9826.7	9972.0	11034.1	13872.1	19310.3	28681.1	34259.6	33715.9	29317.3	27847.0	24265.0
65°	6279.7	6139.6	6843.4	8757.2	14385.6	26779.9	38660.7	38693.2	32508.6	28616.0	23641.3
67°	4548.9	4493.8	4696.6	5986.7	9754.1	22511.6	38753.4	40469.2	34342.2	28130.0	21647.3
67.5°	4160.7	4203.2	4351.0	5400.6	8862.4	20485.1	38332.5	40364.0	34755.5	27836.9	20925.9
70°	3153.7	3081.0	3241.4	3820.0	5312.9	12922.8	32974.5	37019.9	34242.0	24928.8	16720.3
72.5°	2319.6	2312.0	2534.9	3123.6	4090.5	6883.5	24753.4	29683.1	27974.8	18982.1	10528.1
75°	1565.5	1635.7	1991.4	2610.1	3707.2	4463.8	16875.5	21534.6	19420.5	10778.6	4303.4
77.5°	891.7	896.8	1282.5	2096.6	3329.0	3592.0	9999.6	13719.3	10280.1	3584.5	1277.5
80°	385.8	423.4	636.2	1523.0	2760.4	3181.3	5733.7	7539.7	4158.2	759.0	413.3
82.5°	142.8	167.9	280.6	936.9	2013.9	2620.1	3464.2	3599.6	1410.3	268.0	258.0
85°	0.0	5.0	102.7	438.3	1049.6	1169.7	2314.5	2134.2	623.7	127.7	167.9
87.5°	0.0	0.0	0.0	45.1	137.8	435.9	718.9	801.6	150.3	45.1	40.1
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°	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9	9936.9
2.5°	9861.8	9699.0	9290.7	8882.4	8579.3	8326.3	7945.5	7737.6	7627.4	7464.6	7474.6
5°	9613.8	9283.1	8564.2	7820.3	7219.1	6633.0	5931.6	5648.6	5410.6	5275.3	5185.2
7.5°	9245.6	8757.2	7692.5	6700.6	5776.3	4751.8	3982.8	3469.3	3123.6	2995.9	2873.1
10°	8842.3	8193.5	6808.3	5433.1	4150.6	3093.5	2442.3	1971.4	1803.5	1648.2	1663.2
12.5°	8469.0	7680.0	5996.8	4288.4	2908.2	1966.3	1533.0	1340.1	1285.0	1267.5	1267.5
15°	8163.5	7189.0	5125.1	3223.8	1993.9	1412.8	1227.4	1174.8	1154.8	1149.7	1149.7
17.5°	7837.9	6723.1	4338.5	2382.1	1450.3	1182.3	1119.7	1084.6	1077.1	1072.1	1072.1
20°	7547.3	6254.8	3592.0	1773.5	1172.3	1064.6	1024.5	1002.0	994.5	989.4	992.0
22.5°	7271.7	5838.9	2890.7	1340.1	1032.0	969.4	929.3	906.8	891.7	879.2	881.7
25°	7026.2	5438.2	2324.5	1097.2	929.3	874.2	834.1	801.6	769.0	754.0	751.4
27.5°	6853.4	5087.5	1811.0	939.3	836.6	776.5	726.5	686.3	643.8	621.2	616.2
30°	6710.6	4731.7	1432.8	829.1	743.9	686.3	623.7	566.1	521.0	498.5	488.5
32.5°	6617.9	4393.6	1129.7	739.0	666.3	596.2	526.0	468.4	418.3	395.8	390.7
35°	6602.9	4110.6	924.3	663.8	596.2	521.0	448.3	385.8	343.2	320.6	315.6
37.5°	6710.6	3892.7	774.1	603.7	538.6	455.9	375.8	318.2	280.6	263.0	260.5
40°	6998.7	3754.8	671.3	553.5	485.9	395.8	320.6	270.5	233.0	215.4	215.4
42.5°	7547.3	3759.9	603.7	506.0	433.4	338.2	273.1	225.5	192.8	177.9	172.8
45°	8403.9	3930.2	546.1	458.4	383.2	293.1	233.0	185.4	152.8	140.3	140.3
47.5°	9551.2	4268.3	495.9	410.8	338.2	250.4	197.9	150.3	122.7	110.3	110.3
50°	11051.7	4811.9	453.4	370.7	300.6	215.4	160.3	122.7	95.2	85.2	82.7
52.5°	12619.7	5483.2	403.3	335.6	258.0	182.8	130.3	95.2	72.7	65.1	62.7
55°	14350.6	6139.6	355.7	300.6	210.4	152.8	102.7	75.2	52.6	45.1	45.1
57.5°	16096.5	6783.3	298.1	250.4	165.3	112.7	80.1	55.1	35.1	27.6	27.6
60°	17574.4	6991.1	253.0	202.9	125.2	80.1	57.6	35.1	20.0	12.5	12.5
62.5°	17777.3	6289.8	212.9	155.3	90.2	55.1	30.0	20.0	7.5	5.0	5.0
65°	16675.1	5110.0	177.9	117.7	60.1	27.6	12.5	7.5	2.5	0.0	0.0
67°	14941.7	4143.1	145.3	87.6	42.6	17.5	7.5	2.5	0.0	0.0	0.0
67.5°	14498.3	3950.3	140.3	82.7	37.6	15.1	5.0	2.5	0.0	0.0	0.0
70°	11377.3	2958.3	100.2	50.1	22.5	10.0	0.0	0.0	0.0	0.0	0.0
72.5°	7071.3	1673.3	72.7	30.0	15.1	5.0	0.0	0.0	0.0	0.0	0.0
75°	2672.7	586.2	50.1	20.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	831.7	222.9	30.0	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	280.6	85.2	20.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	172.8	35.1	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	107.7	15.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	5.0	2.5	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)