

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: P651568

Luminaire Tested: **GALN-SA8D-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51423.8 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

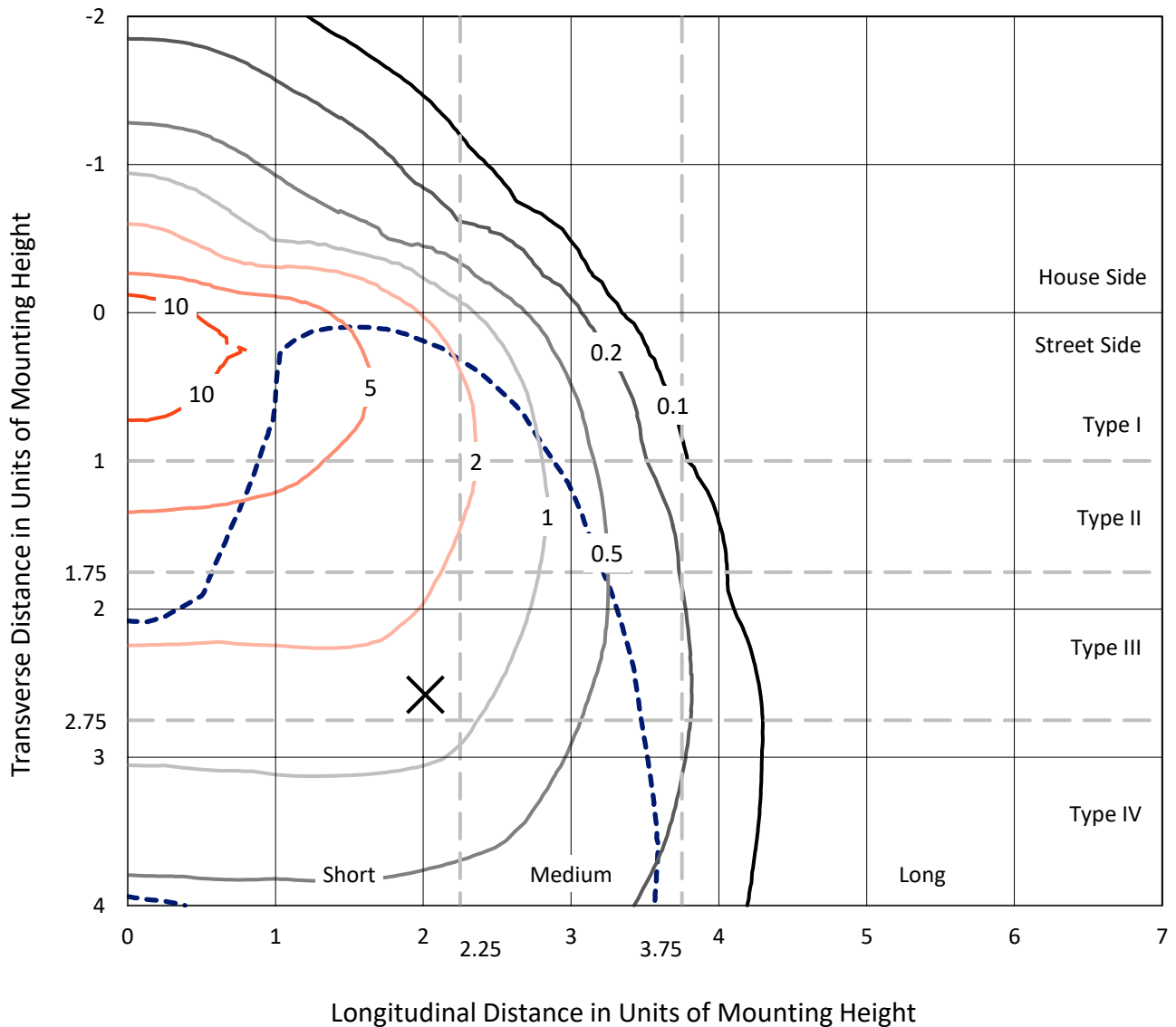
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

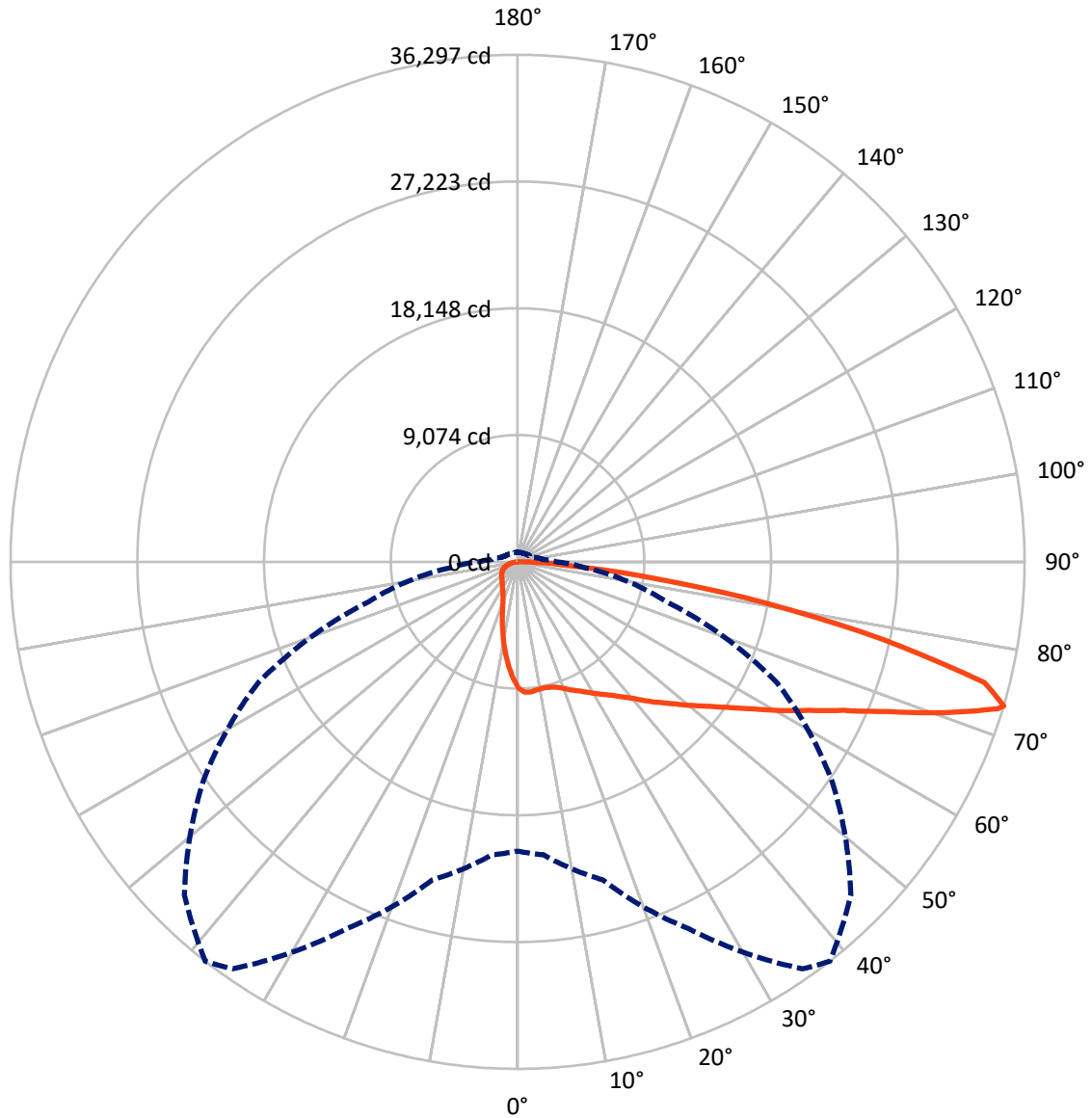
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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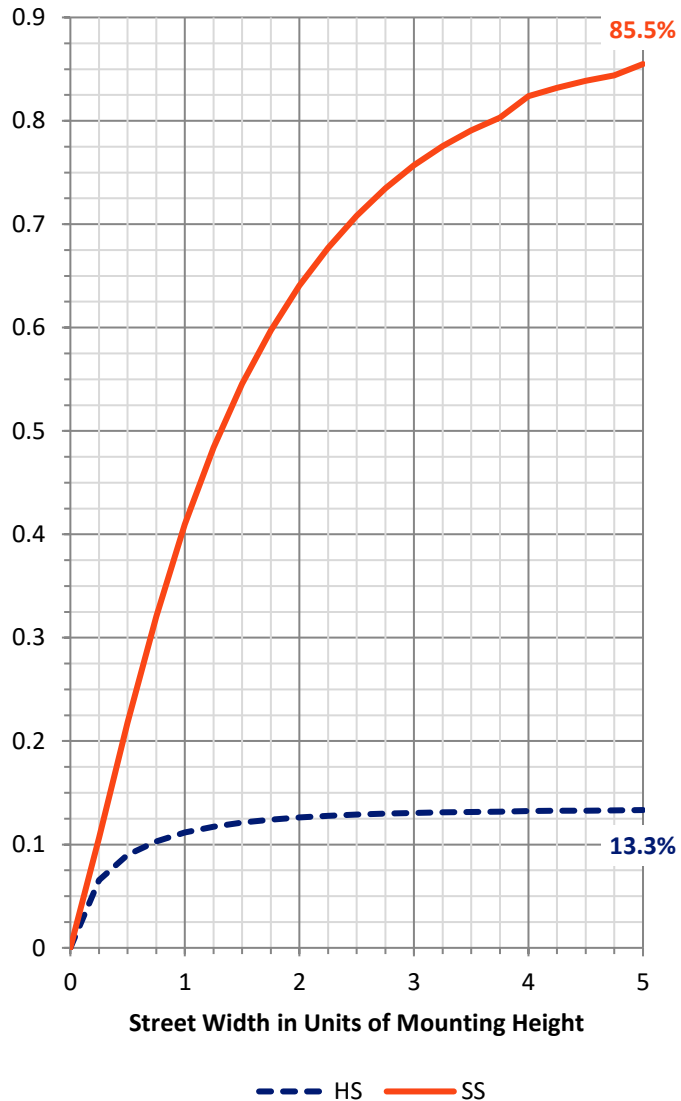
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6912.9	0.0	6912.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	44510.9	0.0	44510.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	51423.8	0.0	51423.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.6	1.5
10°-20°	2022.2	3.9
20°-30°	3149.0	6.1
30°-40°	4618.8	9.0
40°-50°	6851.5	13.3
50°-60°	9707.2	18.9
60°-70°	12313.9	23.9
70°-80°	10250.4	19.9
80°-90°	1722.2	3.3
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°	51423.8	100.0
0°-180°	51423.8	100.0

Coefficient of Utilization

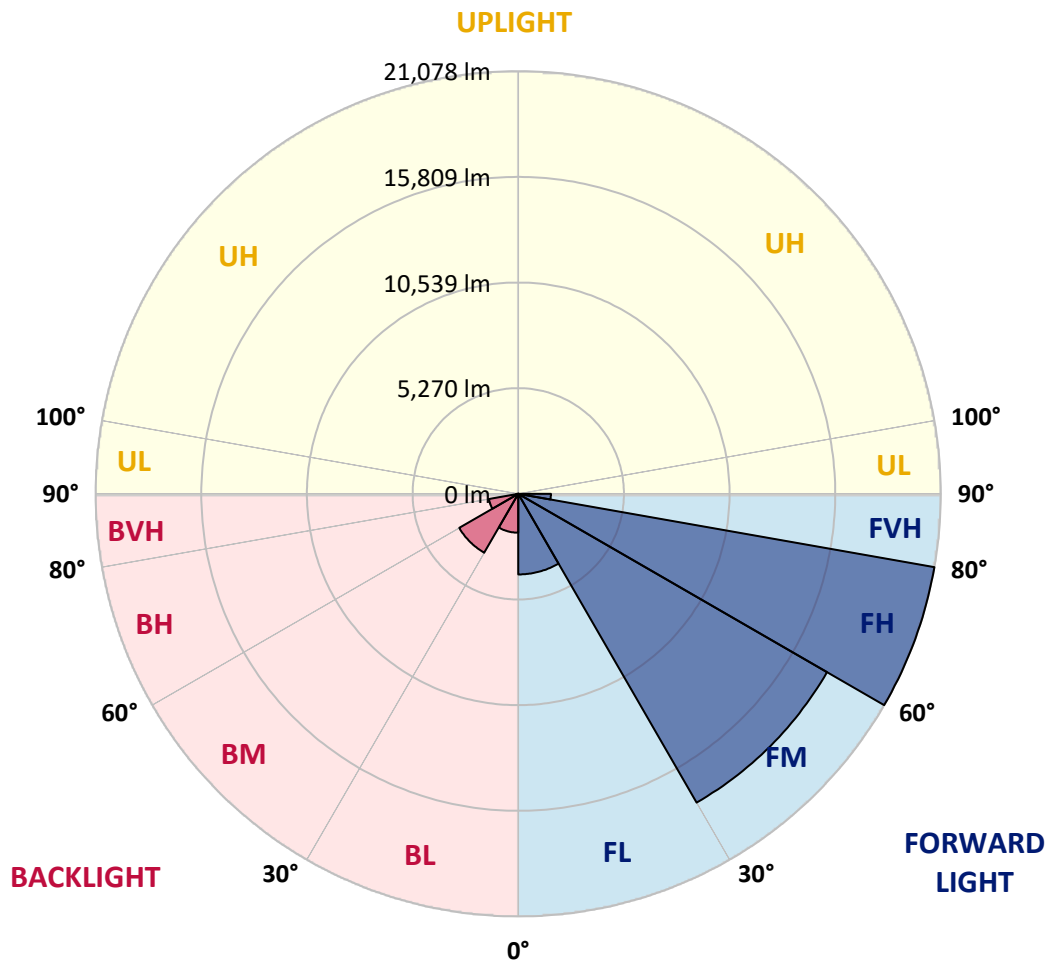


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4019.9	7.8			
FM (30°-60°)	17783.7	34.6			
FH (60°-80°)	21078.4	41.0			G5
FVH (80°-90°)	1628.8	3.2			G5
BL (0°-30°)	1939.8	3.8	B3/2500		
BM (30°-60°)	3393.8	6.6	B3/5000		
BH (60°-80°)	1485.9	2.9	B3/2500		G3/2500
BVH (80°-90°)	93.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3
2.5°	9397.2	9443.8	9420.5	9388.6	9368.2	9347.9	9318.9	9234.7	9167.9	9095.2	8982.0
5°	9467.0	9496.0	9475.7	9435.0	9388.6	9368.2	9313.1	9202.7	9095.2	8973.3	8804.8
7.5°	9426.3	9438.0	9414.7	9365.4	9324.7	9286.9	9223.1	9101.0	8970.4	8822.3	8601.6
10°	9281.1	9324.7	9324.7	9284.1	9243.3	9223.1	9159.2	9043.0	8923.9	8755.5	8494.2
12.5°	9162.0	9208.5	9246.3	9234.7	9231.7	9231.7	9182.4	9095.2	8955.9	8796.2	8485.4
15°	9080.8	9136.0	9217.3	9263.7	9292.7	9301.5	9281.1	9205.6	9063.3	8877.5	8520.3
17.5°	9063.3	9130.1	9278.2	9379.8	9455.4	9452.4	9446.6	9342.1	9185.3	8993.7	8563.8
20°	9141.8	9228.9	9435.0	9594.7	9705.1	9684.8	9652.8	9516.3	9333.4	9118.5	8604.5
22.5°	9377.0	9467.0	9693.5	9867.7	9975.2	9975.2	9879.3	9699.3	9504.7	9263.7	8659.7
25°	9713.8	9812.5	10053.6	10230.8	10280.1	10242.4	10146.5	9928.7	9705.1	9472.8	8775.8
27.5°	10126.1	10245.2	10468.9	10617.0	10602.4	10573.4	10474.7	10195.9	9972.2	9760.3	8973.3
30°	10640.2	10727.3	10959.7	10994.5	10942.2	10936.4	10797.0	10518.2	10309.1	10146.5	9255.0
32.5°	11125.2	11203.5	11389.4	11404.0	11311.0	11322.6	11191.9	10936.4	10817.4	10759.2	9728.4
35°	11639.2	11679.8	11839.5	11822.1	11761.1	11752.4	11700.2	11456.2	11493.9	11598.5	10399.1
37.5°	12068.9	12150.3	12240.3	12254.8	12251.9	12281.0	12315.8	12199.6	12417.4	12745.6	11279.1
40°	12463.9	12533.6	12667.1	12713.6	12826.8	12885.0	13004.0	13006.9	13509.3	14049.5	12362.3
42.5°	12731.1	12850.1	13099.8	13184.1	13460.0	13634.2	13811.3	14000.1	14729.0	15423.0	13640.0
45°	12963.3	13120.2	13535.5	13796.9	14171.4	14383.5	14758.0	15153.0	16201.3	17110.2	14938.1
47.5°	13314.8	13454.1	13930.4	14392.1	14958.4	15202.3	15762.8	16352.3	17723.0	18719.1	16181.0
50°	13802.7	13886.8	14371.8	15124.0	15847.0	16160.7	16901.2	17752.1	19349.2	20307.5	17272.9
52.5°	14427.0	14461.8	14848.0	15849.9	16802.4	17191.6	18173.1	19166.3	20772.2	21687.0	18138.3
55°	15164.6	15106.5	15408.5	16619.5	17894.4	18402.5	19456.7	20597.9	22372.3	22802.0	18768.4
57.5°	15893.5	15803.5	16044.5	17554.5	19241.7	19854.5	21082.9	22073.1	23801.1	23844.6	19209.9
60°	16665.9	16599.2	16886.7	18652.3	20894.1	21620.2	22755.6	23603.6	25183.3	24570.6	19279.5
62.5°	17458.7	17351.3	17760.7	19886.5	22755.6	23414.8	24515.4	25229.8	26539.5	24840.7	18608.7
65°	18228.3	18178.9	18812.0	21353.0	24875.5	25624.8	26693.4	27178.3	27625.6	24434.1	16944.7
67.5°	19047.2	19146.0	20156.5	23310.2	27640.1	28581.0	29733.9	29278.0	27936.3	22508.8	14270.2
70°	20295.9	20359.9	21922.2	25874.5	31203.3	32338.7	32896.3	30024.3	26437.8	18852.6	10727.3
72.5°	20833.2	21114.8	23499.1	28566.5	35251.4	35945.5	33959.2	28360.3	22023.8	12806.6	5636.6
73°	20714.1	21051.0	23571.6	28975.9	35568.0	36296.9	33732.7	27503.6	20473.1	11029.3	4832.2
75°	19230.1	19645.4	22627.9	28633.3	34952.3	34516.7	30091.1	23440.9	13834.5	5015.1	2201.2
77.5°	15173.3	15292.4	17929.2	23121.5	27523.9	26716.6	22520.4	14650.6	5651.2	1864.3	1248.7
80°	7611.3	8049.8	10105.9	13245.1	18405.5	18141.2	14215.0	6928.9	2355.1	1094.8	827.6
82.5°	3661.9	3972.6	4922.3	6458.5	10169.7	9928.7	7039.3	3786.8	1495.6	638.9	487.9
85°	2358.0	2590.4	3133.4	3081.1	4181.7	3993.0	3162.4	2866.2	885.7	334.0	339.8
87.5°	1556.5	1704.6	2044.4	1634.9	1521.7	1376.5	1396.8	1614.6	174.3	127.7	46.4
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°	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3	9034.3
2.5°	8935.5	8897.8	8772.9	8650.9	8534.8	8424.5	8351.9	8256.0	8192.1	8209.6	8235.7
5°	8711.9	8627.7	8407.1	8192.1	7988.8	7747.8	7553.3	7396.4	7277.3	7233.8	7225.1
7.5°	8476.7	8334.4	8017.9	7649.1	7303.5	7004.4	6658.9	6487.5	6287.1	6217.4	6194.2
10°	8334.4	8142.7	7698.4	7184.4	6664.7	6168.1	5793.5	5488.5	5212.7	5160.4	5134.2
12.5°	8293.8	8041.1	7442.9	6780.8	6089.7	5479.8	4925.1	4524.4	4257.2	4196.3	4106.3
15°	8270.6	7956.9	7204.8	6374.3	5497.2	4753.8	4170.1	3702.6	3458.6	3296.0	3298.9
17.5°	8250.2	7861.1	6937.6	5929.9	4986.1	4129.5	3484.8	3063.7	2840.1	2753.0	2744.3
20°	8221.2	7747.8	6629.8	5462.4	4402.5	3560.3	2976.6	2662.9	2512.0	2439.3	2436.5
22.5°	8209.6	7637.5	6327.8	4986.1	3885.5	3121.8	2639.7	2419.1	2323.2	2273.8	2273.8
25°	8238.6	7559.1	6011.2	4533.1	3426.7	2747.1	2407.4	2256.4	2201.2	2175.1	2166.3
27.5°	8328.6	7524.3	5697.6	4080.1	3005.6	2491.6	2250.6	2146.1	2105.4	2085.1	2088.0
30°	8500.0	7521.3	5389.8	3632.9	2692.0	2297.0	2125.7	2053.1	2021.2	2009.6	2006.6
32.5°	8775.8	7585.2	5087.8	3264.1	2427.7	2134.5	2009.6	1957.3	1942.8	1934.0	1931.2
35°	9243.3	7765.3	4788.7	2927.2	2224.4	1989.2	1899.2	1873.1	1852.7	1861.5	1864.3
37.5°	9873.5	8076.0	4504.1	2662.9	2070.5	1881.8	1806.3	1783.0	1771.4	1780.1	1788.9
40°	10718.6	8523.2	4266.0	2450.9	1960.2	1791.8	1725.0	1704.6	1693.0	1707.6	1710.4
42.5°	11650.8	9040.1	4068.5	2285.4	1870.1	1716.2	1652.4	1629.1	1620.4	1629.1	1632.0
45°	12609.1	9641.2	3966.8	2166.3	1794.7	1661.1	1594.3	1568.1	1547.9	1542.0	1550.7
47.5°	13552.9	10163.9	3964.0	2093.8	1733.6	1611.7	1539.1	1510.1	1483.9	1469.4	1466.5
50°	14322.4	10579.2	4033.6	2061.8	1681.4	1556.5	1483.9	1454.9	1420.0	1391.0	1396.8
52.5°	14903.3	10849.2	4065.6	2047.3	1652.4	1498.5	1425.8	1399.8	1359.1	1321.3	1321.3
55°	15277.9	10913.2	3987.2	2032.8	1629.1	1437.4	1359.1	1335.8	1295.1	1257.5	1257.5
57.5°	15405.6	10715.7	3705.4	1998.0	1605.9	1385.2	1292.3	1271.9	1240.0	1202.2	1196.4
60°	15109.4	10047.8	3211.8	1893.4	1559.5	1330.0	1219.7	1211.0	1199.4	1167.4	1164.5
62.5°	13968.2	8630.6	2674.5	1756.9	1481.0	1271.9	1152.8	1167.4	1176.1	1158.7	1155.8
65°	12068.9	7007.3	2285.4	1568.1	1376.5	1190.6	1080.3	1118.0	1141.2	1141.2	1135.4
67.5°	9789.3	5381.1	1925.3	1405.6	1245.8	1080.3	998.9	1028.0	1045.4	1039.6	1054.1
70°	6957.9	3644.5	1568.1	1219.7	1080.3	955.4	894.4	894.4	882.8	877.0	877.0
72.5°	3374.4	2082.1	1271.9	1019.3	920.6	816.0	766.7	746.3	723.1	720.1	705.7
73°	2819.8	1867.3	1213.9	981.5	882.8	795.7	740.5	708.5	694.1	682.5	679.5
75°	1716.2	1417.2	1013.5	827.6	752.1	685.3	636.0	606.9	592.4	583.7	580.8
77.5°	1129.6	1057.1	787.0	633.1	575.0	534.4	514.0	485.0	476.3	464.7	464.7
80°	842.2	807.3	563.4	447.2	412.3	377.5	371.7	365.9	342.7	328.2	322.4
82.5°	543.0	575.0	383.3	299.1	261.4	232.3	235.2	244.0	220.7	200.4	194.6
85°	386.3	415.3	232.3	136.5	110.3	95.8	107.5	95.8	98.7	78.4	63.9
87.5°	63.9	110.3	40.6	17.4	8.7	5.8	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)