

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: P647553

Luminaire Tested: **GALN-SA7D-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647553
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-SA7D-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 41297 lumens
Efficiency: N/A
Efficacy: 95.4 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

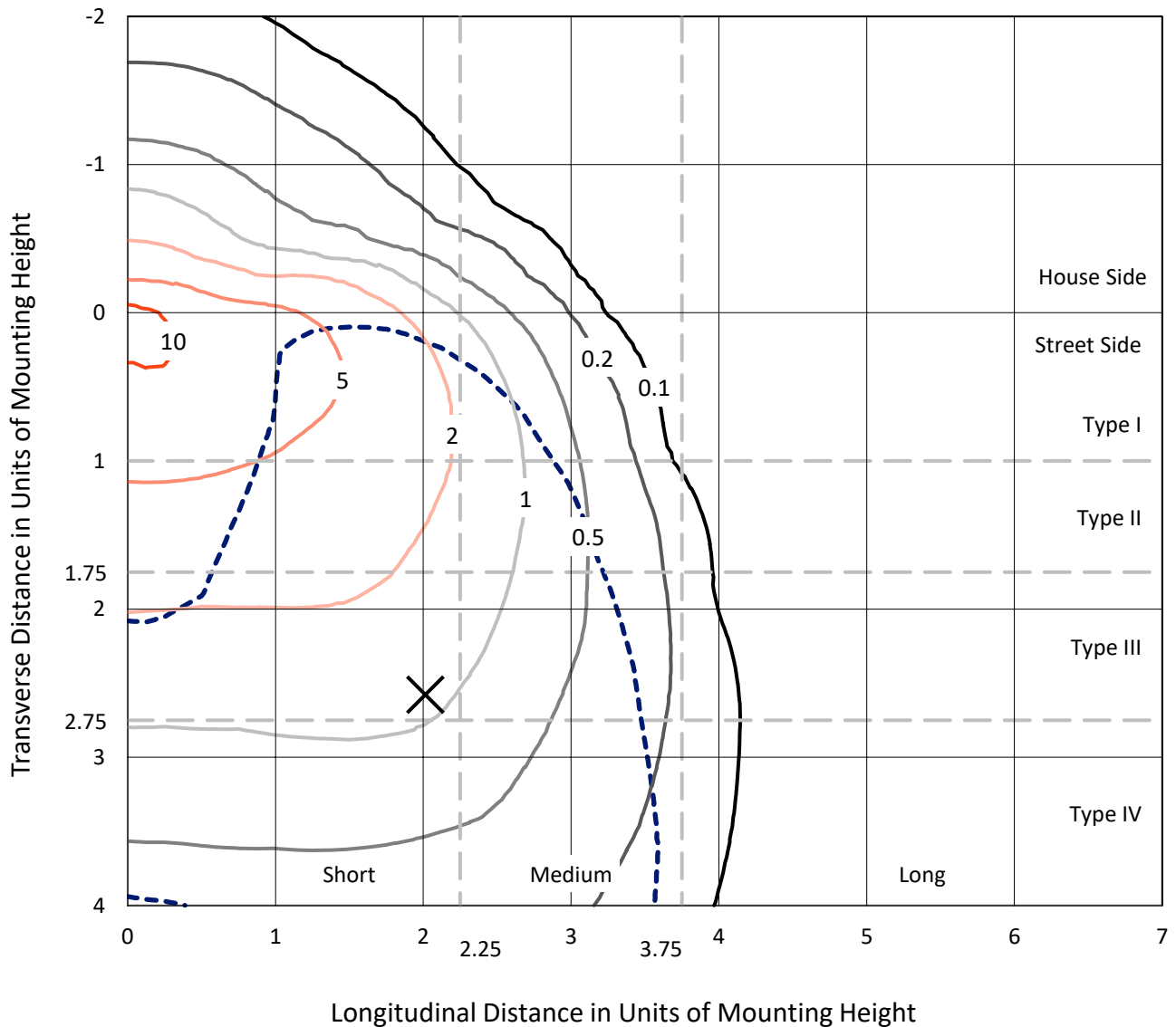
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

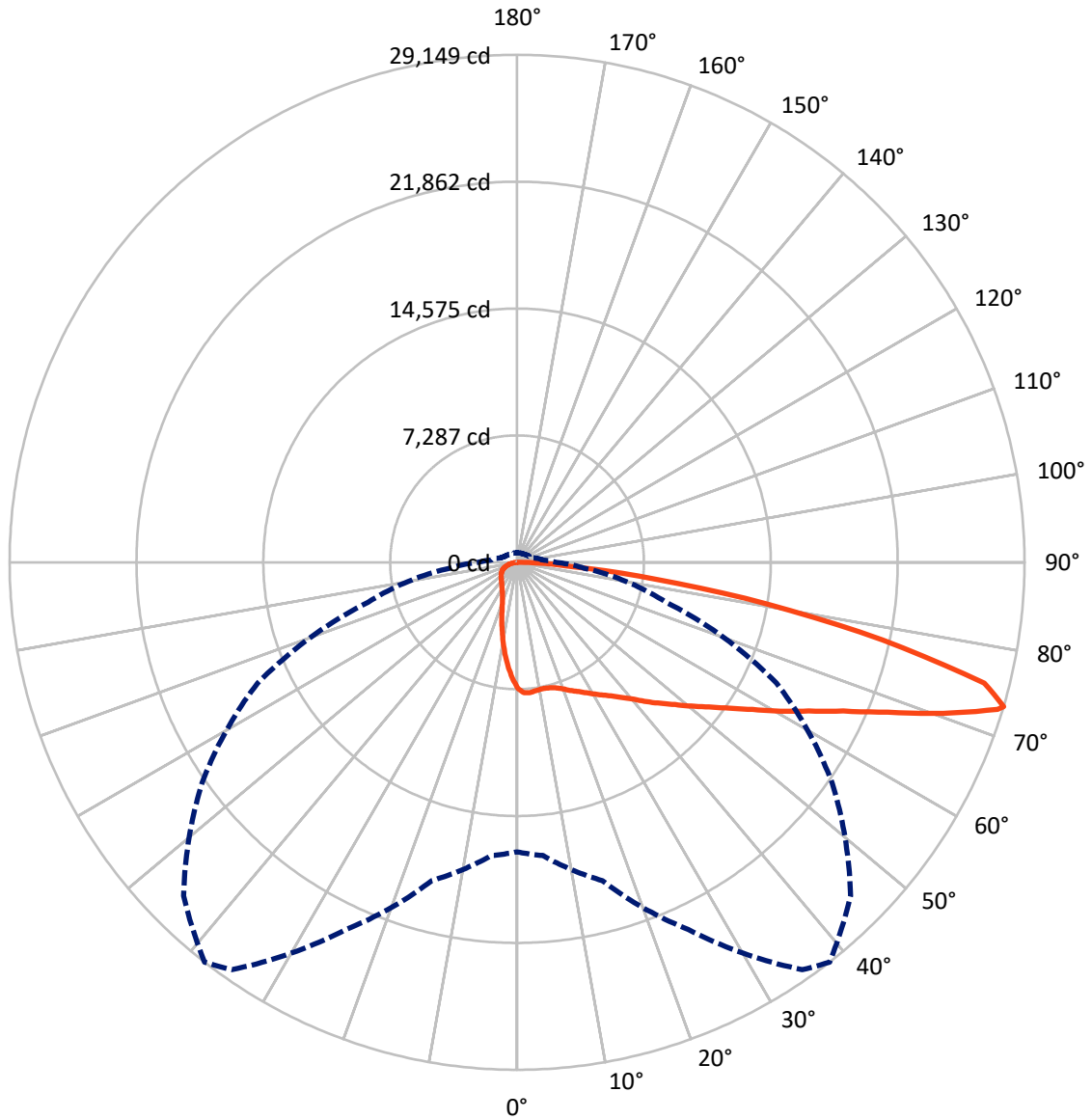
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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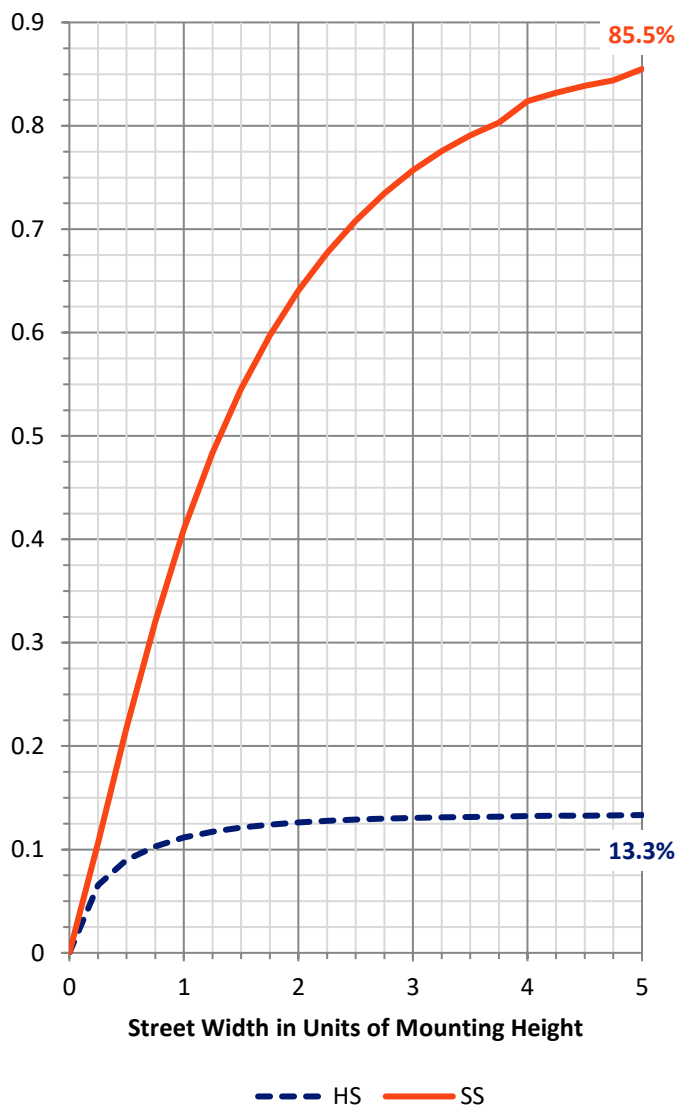
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5551.5	0.0	5551.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	35745.4	0.0	35745.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	41297.0	0.0	41297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.3	1.5
10°-20°	1624.0	3.9
20°-30°	2528.9	6.1
30°-40°	3709.2	9.0
40°-50°	5502.2	13.3
50°-60°	7795.6	18.9
60°-70°	9888.9	23.9
70°-80°	8231.8	19.9
80°-90°	1383.1	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°	41297.0	100.0
0°-180°	41297.0	100.0

Coefficient of Utilization



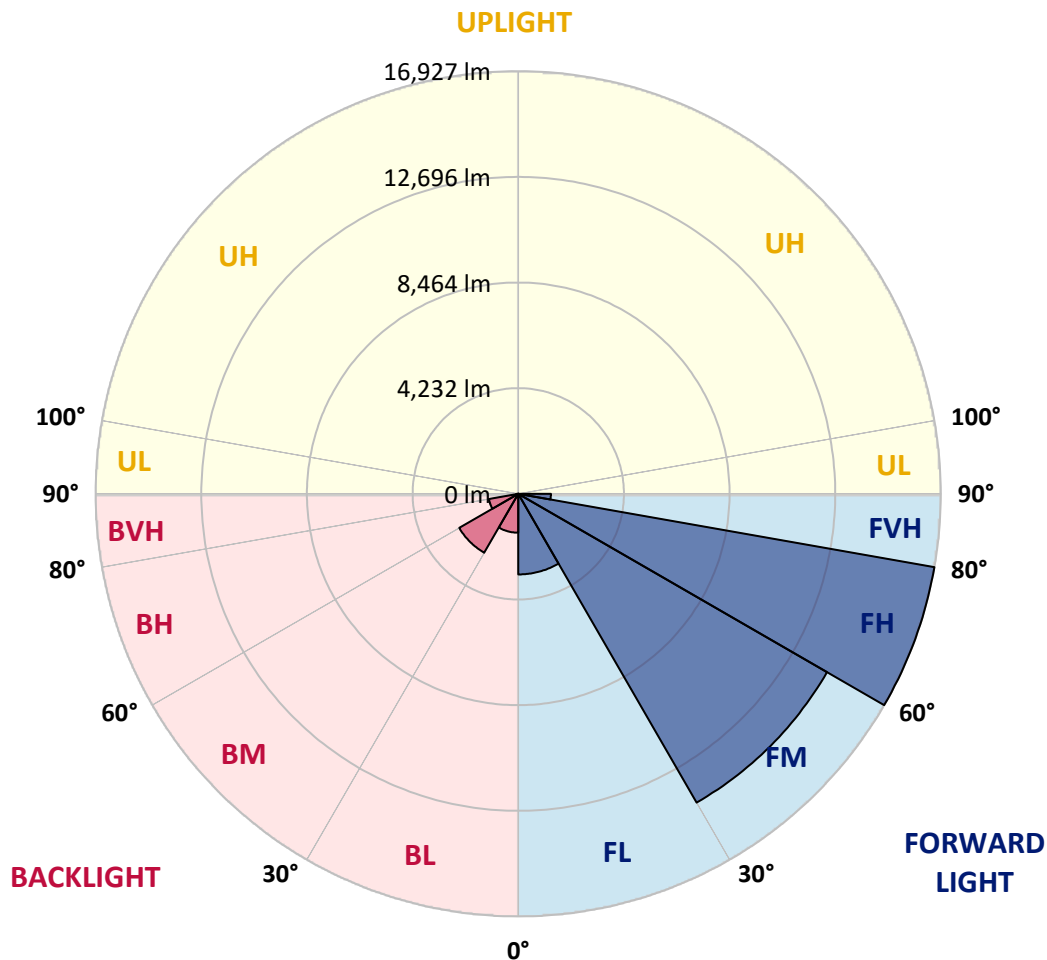
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3228.3	7.8			
FM (30°-60°)	14281.6	34.6			
FH (60°-80°)	16927.5	41.0			G5
FVH (80°-90°)	1308.1	3.2			G5
BL (0°-30°)	1557.8	3.8	B3/2500		
BM (30°-60°)	2725.5	6.6	B3/5000		
BH (60°-80°)	1193.3	2.9	B3/2500		G3/2500
BVH (80°-90°)	75.0	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°	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2
2.5°	7546.7	7584.0	7565.3	7539.7	7523.4	7507.0	7483.8	7416.1	7362.5	7304.1	7213.2
5°	7602.7	7626.0	7609.7	7577.0	7539.7	7523.4	7479.1	7390.4	7304.1	7206.2	7071.0
7.5°	7570.0	7579.4	7560.6	7521.0	7488.4	7458.1	7406.8	7308.8	7203.9	7085.0	6907.7
10°	7453.4	7488.4	7488.4	7455.7	7423.1	7406.8	7355.4	7262.2	7166.6	7031.3	6821.4
12.5°	7357.8	7395.1	7425.4	7416.1	7413.8	7413.8	7374.1	7304.1	7192.2	7063.9	6814.4
15°	7292.5	7336.8	7402.1	7439.4	7462.8	7469.7	7453.4	7392.8	7278.5	7129.2	6842.4
17.5°	7278.5	7332.2	7451.1	7532.7	7593.3	7591.0	7586.3	7502.4	7376.5	7222.5	6877.4
20°	7341.5	7411.4	7577.0	7705.3	7793.9	7777.5	7751.9	7642.3	7495.4	7322.8	6910.1
22.5°	7530.3	7602.7	7784.6	7924.5	8010.8	8010.8	7933.8	7789.2	7633.0	7439.4	6954.4
25°	7800.9	7880.2	8073.7	8216.0	8255.6	8225.3	8148.4	7973.4	7793.9	7607.3	7047.6
27.5°	8132.1	8227.7	8407.2	8526.2	8514.5	8491.2	8411.9	8188.0	8008.4	7838.2	7206.2
30°	8544.8	8614.8	8801.4	8829.3	8787.4	8782.7	8670.8	8446.8	8279.0	8148.4	7432.4
32.5°	8934.3	8997.3	9146.5	9158.2	9083.6	9092.9	8987.9	8782.7	8687.1	8640.5	7812.5
35°	9347.1	9379.7	9508.0	9494.0	9445.0	9438.0	9396.1	9200.2	9230.5	9314.4	8351.2
37.5°	9692.2	9757.5	9829.9	9841.4	9839.2	9862.5	9890.5	9797.2	9972.1	10235.6	9057.9
40°	10009.4	10065.4	10172.7	10209.9	10300.9	10347.6	10443.2	10445.5	10848.9	11282.7	9927.7
42.5°	10223.9	10319.5	10520.2	10587.7	10809.3	10949.2	11091.5	11243.1	11828.5	12385.8	10953.9
45°	10410.5	10536.4	10869.9	11079.8	11380.7	11550.9	11851.7	12168.9	13010.8	13740.8	11996.3
47.5°	10692.7	10804.6	11187.1	11557.9	12012.7	12208.5	12658.7	13132.1	14232.8	15032.7	12994.5
50°	11084.5	11152.1	11541.6	12145.6	12726.3	12978.1	13572.8	14256.2	15538.8	16308.4	13871.4
52.5°	11585.9	11613.8	11924.1	12728.6	13493.6	13806.1	14594.3	15391.9	16681.6	17416.2	14566.3
55°	12178.2	12131.6	12374.1	13346.6	14370.4	14778.6	15625.1	16541.7	17966.6	18311.7	15072.4
57.5°	12763.6	12691.3	12884.9	14097.6	15452.5	15944.6	16931.1	17726.3	19114.0	19148.9	15426.9
60°	13384.0	13330.3	13561.2	14979.1	16779.5	17362.6	18274.4	18955.3	20224.0	19731.9	15482.9
62.5°	14020.6	13934.3	14263.1	15970.2	18274.4	18803.7	19687.7	20261.3	21313.1	19948.8	14944.1
65°	14638.7	14599.0	15107.4	17147.9	19976.8	20578.5	21436.7	21826.2	22185.3	19622.4	13607.8
67.5°	15296.3	15375.5	16187.1	18719.8	22197.0	22952.5	23878.4	23512.3	22434.8	18076.2	11460.0
70°	16299.1	16350.4	17605.1	20779.1	25058.5	25970.3	26418.1	24111.6	21231.5	15140.0	8614.8
72.5°	16730.5	16956.7	18871.4	22941.0	28309.4	28866.8	27271.7	22775.4	17686.7	10284.5	4526.6
73°	16634.9	16905.4	18929.7	23269.7	28563.6	29149.0	27089.8	22087.3	16441.4	8857.4	3880.6
75°	15443.2	15776.7	18171.8	22994.6	28069.2	27719.4	24165.3	18824.7	11110.1	4027.5	1767.7
77.5°	12185.3	12280.9	14398.4	18568.2	22103.7	21455.4	18085.5	11765.4	4538.3	1497.2	1002.8
80°	6112.4	6464.6	8115.7	10636.7	14780.8	14568.7	11415.7	5564.4	1891.3	879.2	664.7
82.5°	2940.8	3190.3	3952.9	5186.6	8167.0	7973.4	5653.0	3041.1	1201.0	513.1	391.8
85°	1893.7	2080.3	2516.3	2474.4	3358.2	3206.6	2539.7	2301.8	711.3	268.2	272.9
87.5°	1250.0	1368.9	1641.8	1313.0	1222.0	1105.4	1121.7	1296.6	139.9	102.7	37.3
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°	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2	7255.2
2.5°	7175.9	7145.6	7045.3	6947.3	6854.1	6765.4	6707.1	6630.2	6578.8	6592.9	6613.8
5°	6996.3	6928.7	6751.4	6578.8	6415.6	6222.0	6065.8	5939.8	5844.2	5809.3	5802.3
7.5°	6807.4	6693.2	6438.9	6142.8	5865.2	5625.1	5347.5	5209.9	5049.0	4993.0	4974.4
10°	6693.2	6539.2	6182.4	5769.6	5352.2	4953.4	4652.6	4407.7	4186.2	4144.2	4123.2
12.5°	6660.5	6457.6	5977.2	5445.5	4890.5	4400.7	3955.2	3633.4	3418.9	3369.9	3297.6
15°	6641.9	6390.0	5786.0	5118.9	4414.7	3817.7	3348.9	2973.4	2777.5	2646.9	2649.3
17.5°	6625.5	6313.0	5571.4	4762.1	4004.3	3316.2	2798.5	2460.3	2280.8	2210.8	2203.8
20°	6602.2	6222.0	5324.2	4386.7	3535.5	2859.1	2390.4	2138.5	2017.2	1959.0	1956.6
22.5°	6592.9	6133.5	5081.7	4004.3	3120.3	2507.0	2119.9	1942.6	1865.7	1826.0	1826.0
25°	6616.2	6070.4	4827.4	3640.4	2751.9	2206.2	1933.3	1812.0	1767.7	1746.7	1739.7
27.5°	6688.5	6042.5	4575.6	3276.6	2413.8	2001.0	1807.4	1723.5	1690.8	1674.4	1676.8
30°	6826.0	6040.1	4328.4	2917.5	2161.9	1844.7	1707.1	1648.8	1623.2	1613.8	1611.5
32.5°	7047.6	6091.4	4085.9	2621.2	1949.7	1714.1	1613.8	1571.9	1560.2	1553.2	1550.9
35°	7423.1	6236.0	3845.6	2350.8	1786.4	1597.5	1525.2	1504.2	1487.9	1494.9	1497.2
37.5°	7929.1	6485.6	3617.1	2138.5	1662.8	1511.2	1450.6	1432.0	1422.6	1429.6	1436.6
40°	8607.8	6844.8	3425.9	1968.3	1574.1	1438.9	1385.3	1368.9	1359.6	1371.3	1373.6
42.5°	9356.4	7259.8	3267.3	1835.4	1501.9	1378.2	1327.0	1308.3	1301.3	1308.3	1310.7
45°	10126.0	7742.6	3185.6	1739.7	1441.3	1334.0	1280.4	1259.3	1243.0	1238.3	1245.4
47.5°	10883.9	8162.4	3183.3	1681.4	1392.3	1294.3	1236.0	1212.7	1191.7	1180.1	1177.7
50°	11502.0	8495.9	3239.3	1655.8	1350.3	1250.0	1191.7	1168.4	1140.4	1117.1	1121.7
52.5°	11968.4	8712.8	3265.0	1644.1	1327.0	1203.4	1145.1	1124.1	1091.4	1061.1	1061.1
55°	12269.2	8764.0	3202.0	1632.5	1308.3	1154.4	1091.4	1072.8	1040.1	1009.8	1009.8
57.5°	12371.8	8605.5	2975.8	1604.5	1289.7	1112.4	1037.8	1021.4	995.8	965.5	960.8
60°	12133.9	8069.0	2579.3	1520.5	1252.3	1068.1	979.5	972.5	963.2	937.5	935.1
62.5°	11217.4	6931.0	2147.8	1410.9	1189.4	1021.4	925.8	937.5	944.5	930.5	928.2
65°	9692.2	5627.3	1835.4	1259.3	1105.4	956.2	867.6	897.9	916.5	916.5	911.9
67.5°	7861.6	4321.4	1546.2	1128.8	1000.4	867.6	802.3	825.6	839.5	834.9	846.6
70°	5587.7	2926.8	1259.3	979.5	867.6	767.3	718.3	718.3	708.9	704.3	704.3
72.5°	2709.9	1672.1	1021.4	818.5	739.3	655.3	615.7	599.4	580.7	578.3	566.7
73°	2264.4	1499.5	974.8	788.2	708.9	639.0	594.7	569.0	557.3	548.0	545.8
75°	1378.2	1138.1	813.9	664.7	604.0	550.4	510.8	487.4	475.8	468.8	466.4
77.5°	907.2	848.9	632.0	508.4	461.7	429.1	412.8	389.5	382.5	373.1	373.1
80°	676.3	648.3	452.4	359.2	331.1	303.2	298.5	293.9	275.2	263.6	258.9
82.5°	436.1	461.7	307.9	240.2	209.9	186.6	188.9	195.9	177.3	160.9	156.3
85°	310.1	333.5	186.6	109.6	88.6	77.0	86.3	77.0	79.3	63.0	51.3
87.5°	51.3	88.6	32.7	14.0	7.0	4.7	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)