

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: P650763

Luminaire Tested: **GALN-SA2C-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8729.6 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

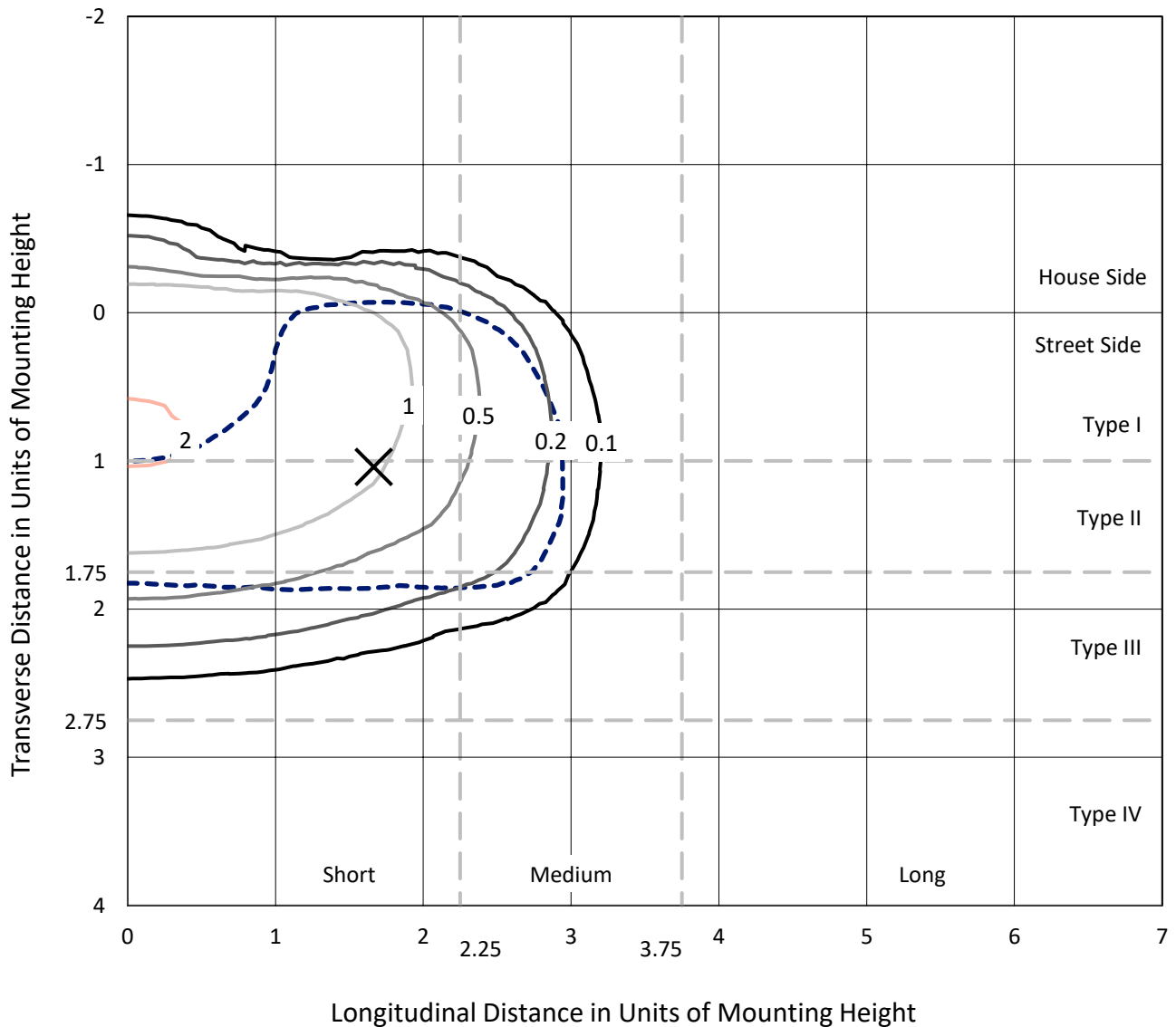
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

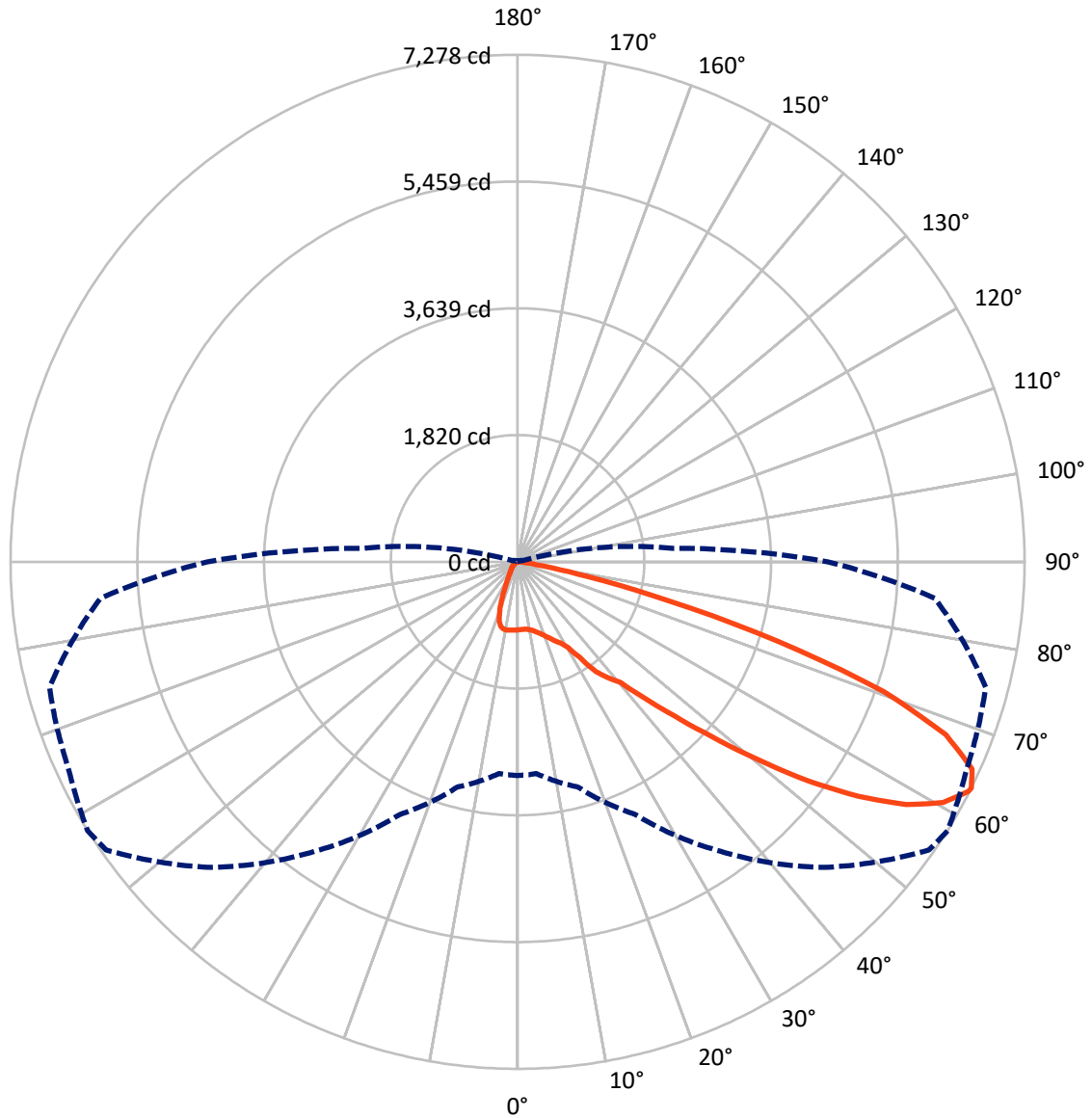
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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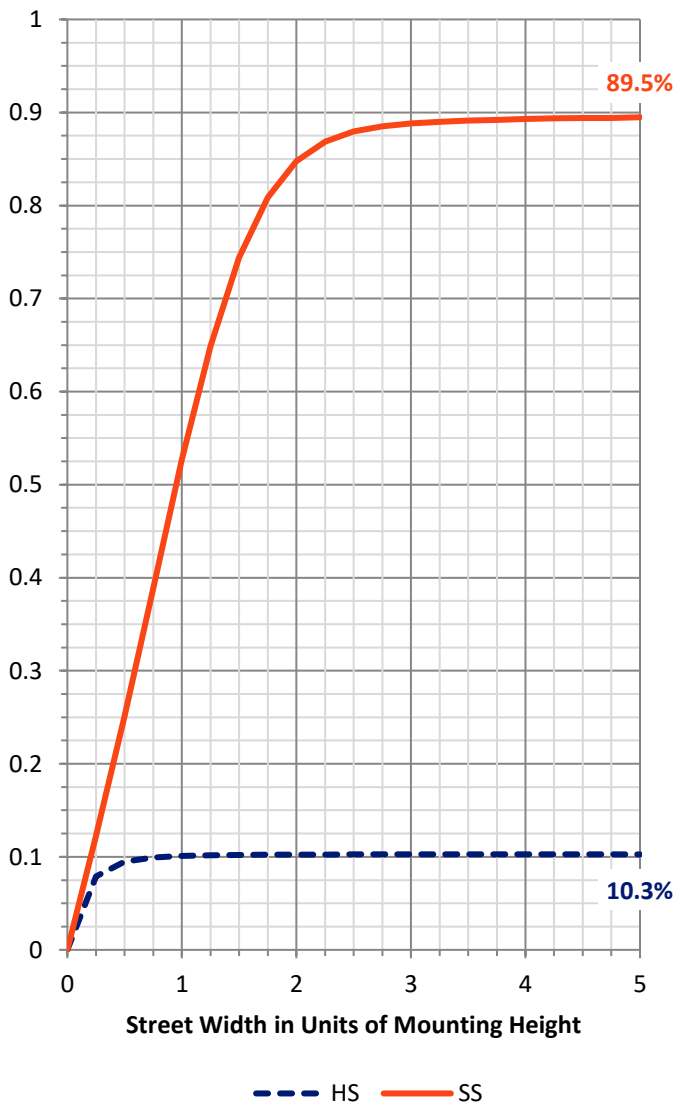
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	903.9	0.0	903.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7825.7	0.0	7825.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	8729.6	0.0	8729.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.0
10°-20°	249.2	2.9
20°-30°	432.5	5.0
30°-40°	794.7	9.1
40°-50°	1496.0	17.1
50°-60°	2558.8	29.3
60°-70°	2450.1	28.1
70°-80°	624.8	7.2
80°-90°	31.9	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°	8729.6	100.0
0°-180°	8729.6	100.0

Coefficient of Utilization

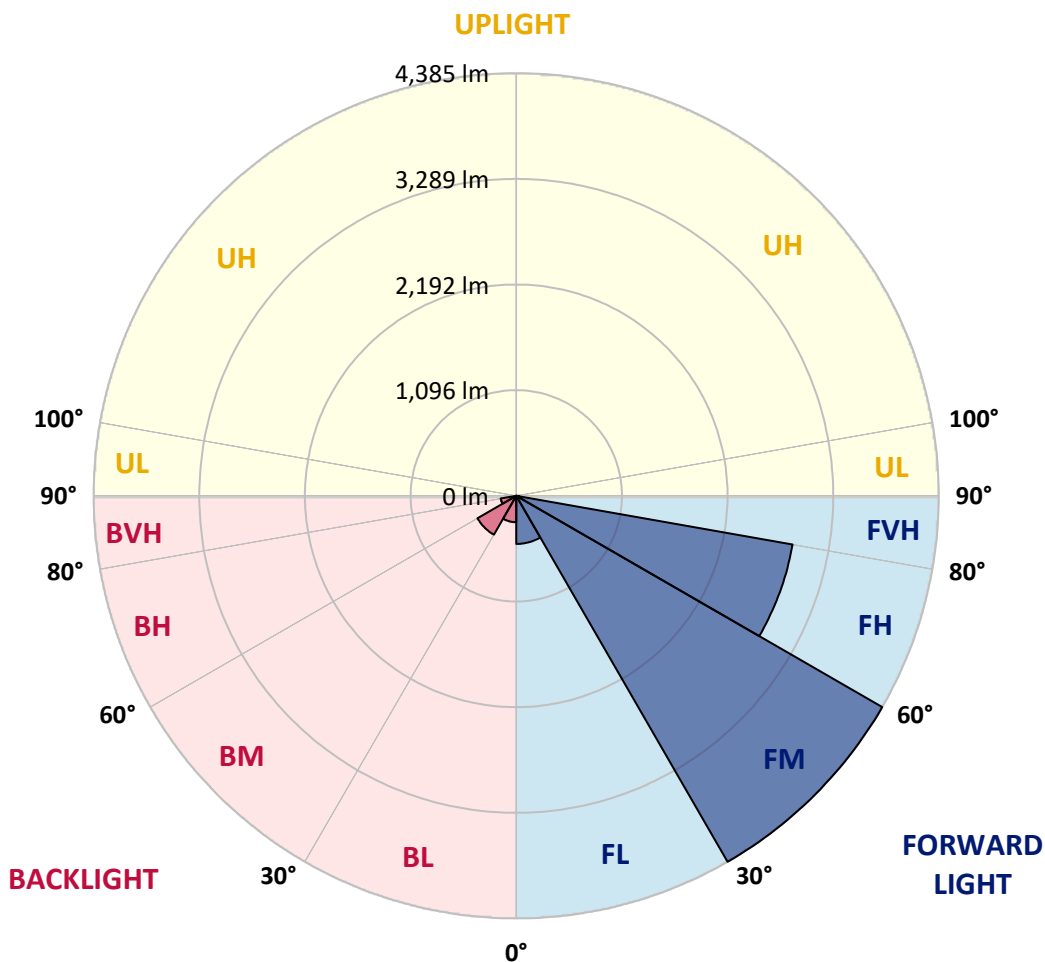


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.0	5.7			
FM (30°-60°)	4384.7	50.2			
FH (60°-80°)	2911.3	33.3			G2/5000
FVH (80°-90°)	30.7	0.4			G1/100
BL (0°-30°)	274.1	3.1	B1/500		
BM (30°-60°)	464.9	5.3	B1/1000		
BH (60°-80°)	163.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3
2.5°	953.0	956.3	959.6	960.8	965.5	970.1	973.4	972.7	978.0	980.6	980.6
5°	914.8	914.8	923.4	931.3	944.4	957.6	970.1	972.7	982.5	991.8	995.1
7.5°	882.6	884.6	891.2	905.7	923.4	946.5	971.4	977.3	994.4	1014.8	1023.3
10°	867.6	868.8	877.4	892.6	914.8	946.5	981.3	992.5	1018.7	1050.9	1062.8
12.5°	864.3	866.2	874.8	891.9	917.5	955.6	1003.0	1014.8	1052.9	1094.3	1112.1
15°	870.2	871.5	880.0	898.4	926.7	972.0	1031.8	1048.3	1093.6	1141.7	1164.6
17.5°	891.2	889.9	895.8	911.0	942.5	992.5	1066.7	1086.4	1139.6	1205.4	1220.5
20°	980.6	972.0	966.8	953.6	966.1	1021.3	1108.8	1137.7	1203.4	1270.4	1280.9
22.5°	1173.2	1154.1	1116.7	1065.4	1025.9	1060.8	1159.4	1192.9	1277.6	1343.4	1343.4
25°	1418.3	1394.0	1356.5	1244.8	1148.2	1125.8	1216.5	1258.6	1358.5	1424.9	1403.2
27.5°	1725.2	1706.2	1633.2	1503.1	1355.2	1239.5	1282.9	1321.7	1430.1	1510.4	1464.9
30°	1975.0	1965.8	1906.0	1789.6	1626.7	1457.8	1406.5	1432.1	1525.4	1618.1	1571.5
32.5°	2185.9	2185.9	2124.9	2016.4	1863.9	1714.0	1616.1	1634.6	1724.0	1831.0	1744.3
35°	2418.0	2410.1	2360.8	2257.6	2086.7	1954.7	1914.5	1939.5	2020.3	2099.9	1886.3
37.5°	2661.8	2659.2	2607.9	2508.0	2368.7	2202.4	2108.4	2114.9	2156.4	2205.0	2052.5
40°	2926.7	2930.6	2863.6	2801.8	2670.3	2500.1	2320.1	2278.6	2317.4	2454.8	2359.5
42.5°	3239.5	3230.3	3201.4	3117.3	3011.5	2909.6	2693.4	2678.2	2712.4	2859.7	2756.5
45°	3602.9	3616.1	3566.2	3519.5	3448.5	3363.7	3183.0	3156.7	3194.2	3422.9	3276.3
47.5°	3967.1	3954.6	3986.8	3978.3	4016.4	3953.3	3793.6	3739.7	3829.7	4046.6	3831.0
50°	4244.4	4258.2	4325.3	4423.2	4586.8	4622.3	4469.2	4450.8	4490.9	4630.2	4327.3
52.5°	4424.5	4470.5	4575.7	4827.4	5122.5	5351.9	5235.6	5225.7	5209.2	5246.7	4801.8
55°	4542.2	4588.8	4726.2	5096.9	5604.9	5977.6	5983.5	5941.4	5833.0	5806.0	5245.4
57.5°	4469.8	4479.1	4675.0	5170.5	5872.4	6423.8	6617.1	6575.0	6374.5	6272.7	5637.1
60°	4017.7	4036.7	4309.5	4891.8	5756.1	6569.7	7037.1	7018.0	6798.5	6683.4	5942.1
62.5°	3216.5	3271.7	3552.4	4201.7	5215.2	6323.9	7207.3	7261.1	7090.3	6931.9	6038.0
63°	3069.3	3051.6	3347.9	4000.6	5071.9	6202.4	7209.9	7278.3	7103.4	6955.5	6011.7
65°	2272.0	2325.3	2517.9	3154.8	4220.8	5636.5	7047.6	7168.5	7054.8	6851.0	5720.6
67.5°	1275.7	1273.1	1486.0	2064.4	2954.3	4421.2	6372.6	6628.3	6604.5	6147.8	4742.0
70°	624.4	634.2	721.7	1070.0	1713.5	3050.2	5295.4	5571.4	5580.0	4828.7	3279.0
72.5°	282.6	287.2	349.7	521.2	880.7	1624.1	3649.0	3912.5	3863.9	3077.2	1810.7
75°	149.2	159.0	192.6	262.2	424.5	669.7	1984.8	2239.8	2138.0	1405.8	666.4
77.5°	110.4	113.7	130.8	166.9	227.4	261.0	856.4	1018.7	954.3	508.7	220.8
80°	80.8	83.4	97.3	118.3	143.3	132.8	322.7	370.0	331.9	172.8	67.7
82.5°	49.3	50.0	71.0	88.1	90.1	74.3	106.5	114.4	119.6	97.3	36.8
85°	17.7	22.4	47.9	63.7	53.2	37.4	44.7	49.3	53.9	61.8	21.7
87.5°	1.9	2.6	23.0	30.9	15.1	13.8	16.4	18.4	19.7	23.0	10.5
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°	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3	977.3
2.5°	983.2	985.8	983.9	980.6	979.9	978.0	974.0	974.0	974.0	975.3	974.0
5°	997.7	999.7	995.1	988.5	981.3	972.0	962.2	956.3	955.6	954.3	951.0
7.5°	1025.3	1028.0	1017.4	1001.6	982.0	959.6	938.6	918.8	909.6	902.4	902.4
10°	1065.4	1068.0	1047.0	1018.7	979.3	933.9	884.0	838.6	803.2	786.7	782.8
12.5°	1113.4	1114.7	1079.8	1030.6	965.5	878.1	771.6	672.4	603.3	571.8	568.5
15°	1166.0	1156.7	1110.7	1035.2	926.0	763.0	579.0	457.4	385.8	364.7	372.6
17.5°	1219.2	1202.1	1134.4	1028.0	837.3	579.0	389.0	312.2	289.8	283.9	283.9
20°	1269.2	1245.4	1151.5	996.3	683.6	399.0	288.5	270.1	266.2	262.2	262.9
22.5°	1319.1	1282.9	1166.6	926.0	509.4	285.3	258.3	252.4	247.1	241.9	241.2
25°	1367.7	1317.8	1172.5	795.9	347.0	245.2	236.0	228.1	217.6	211.6	210.3
27.5°	1418.3	1359.8	1168.6	631.6	253.1	219.5	210.3	199.1	186.6	176.1	176.1
30°	1515.6	1440.0	1154.8	454.1	212.9	193.3	181.4	163.7	149.9	139.4	138.7
32.5°	1648.4	1544.5	1107.4	319.4	189.3	170.2	152.5	132.8	118.3	110.4	110.4
35°	1766.7	1649.6	1018.7	235.3	170.2	147.8	126.2	107.1	96.0	90.7	88.7
37.5°	1946.7	1803.4	896.5	191.2	151.8	128.2	105.8	88.1	78.9	74.9	74.9
40°	2216.9	1991.4	746.6	167.6	134.1	109.1	88.1	74.3	67.0	62.4	62.4
42.5°	2552.0	2221.4	594.8	150.5	117.7	94.0	73.6	63.1	56.5	53.2	52.6
45°	2974.0	2464.0	458.1	134.7	104.5	80.1	62.4	53.2	46.7	44.7	45.3
47.5°	3414.4	2677.6	354.9	120.9	90.7	67.7	53.2	46.0	41.4	38.8	38.8
50°	3790.3	2824.8	269.5	105.1	80.1	57.2	46.7	41.4	37.4	36.2	35.5
52.5°	4104.4	2867.6	206.4	91.3	70.3	49.3	41.4	37.4	34.1	32.2	32.2
55°	4371.9	2830.0	161.6	76.9	59.1	42.7	36.8	33.6	29.6	27.6	26.9
57.5°	4528.4	2709.8	123.5	63.7	47.9	35.5	32.2	28.3	23.6	20.4	20.4
60°	4607.3	2534.9	94.6	52.6	36.8	28.3	26.3	21.0	16.4	13.8	13.1
62.5°	4512.6	2303.0	71.7	41.4	27.6	21.0	17.7	15.1	10.5	7.9	7.9
63°	4454.1	2235.9	69.0	39.4	25.7	19.7	16.4	13.8	9.2	7.2	6.6
65°	4060.4	1943.5	56.5	31.5	20.4	13.8	11.2	9.8	6.6	3.3	2.6
67.5°	3224.4	1486.6	44.7	23.6	14.5	9.8	6.6	5.9	1.9	0.0	0.0
70°	2180.0	960.3	34.8	17.1	9.8	5.9	3.3	2.6	0.7	0.0	0.0
72.5°	1137.0	492.2	26.9	12.4	5.9	4.0	1.9	0.7	0.0	0.0	0.0
75°	402.3	167.6	19.7	7.9	4.0	1.9	0.7	0.0	0.0	0.0	0.0
77.5°	121.6	62.4	12.4	5.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
80°	42.7	23.0	7.2	4.0	1.9	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.0	11.2	4.6	3.3	1.9	0.7	0.0	0.0	0.0	0.0	0.0
85°	11.9	7.2	4.0	3.3	1.9	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	5.3	4.0	3.3	2.6	1.3	0.7	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)