

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: P650756

Luminaire Tested: **GALN-SA2C-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7863.4 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

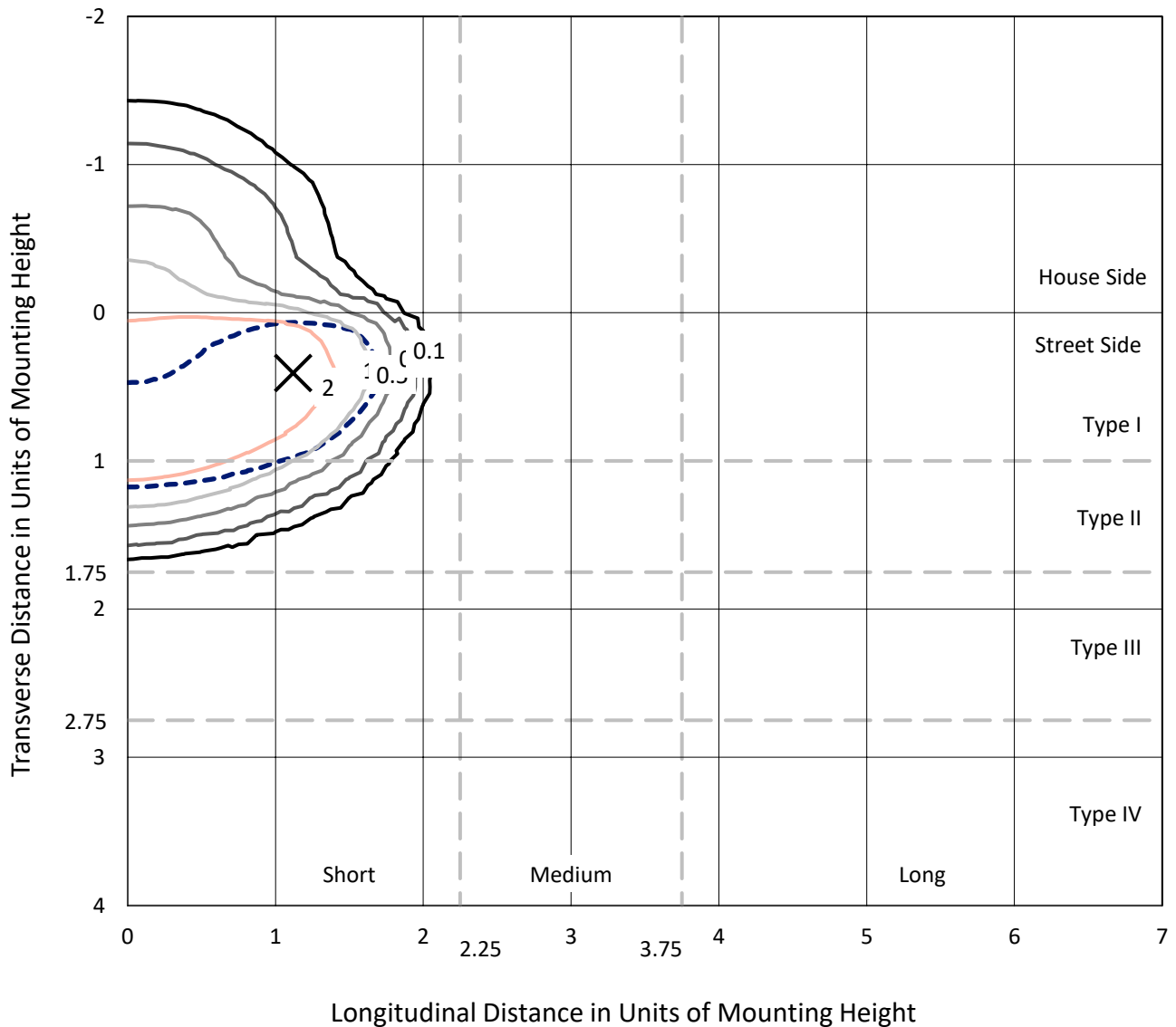
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

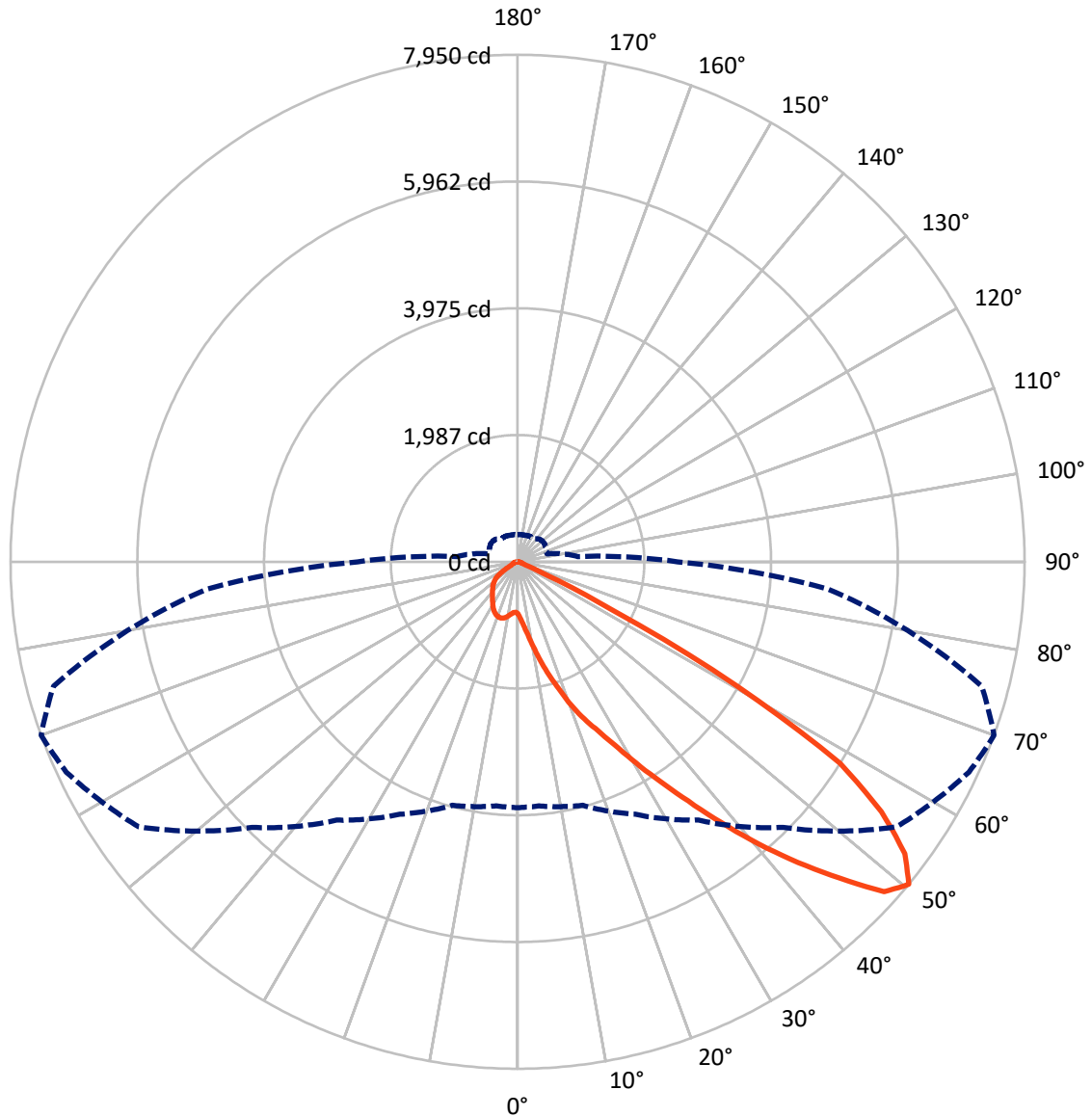
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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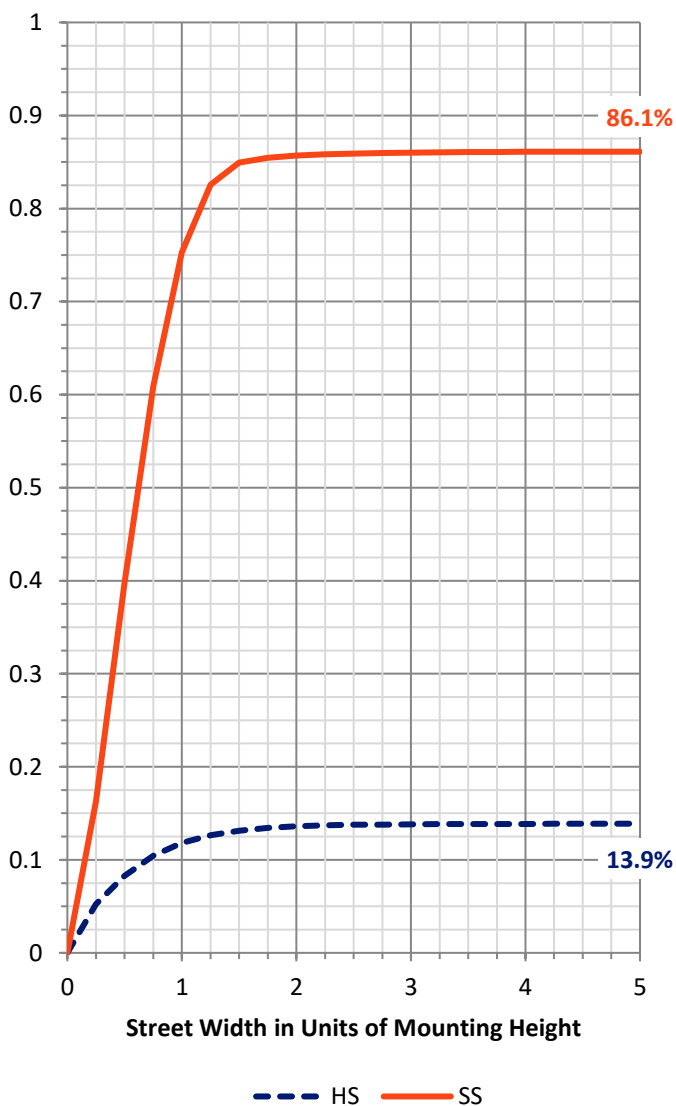
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.2	0.0	1098.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6765.2	0.0	6765.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	7863.4	0.0	7863.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.3
10°-20°	458.1	5.8
20°-30°	961.1	12.2
30°-40°	1656.6	21.1
40°-50°	2421.1	30.8
50°-60°	1885.7	24.0
60°-70°	319.5	4.1
70°-80°	43.9	0.6
80°-90°	11.4	0.1
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°	7863.4	100.0
0°-180°	7863.4	100.0

Coefficient of Utilization



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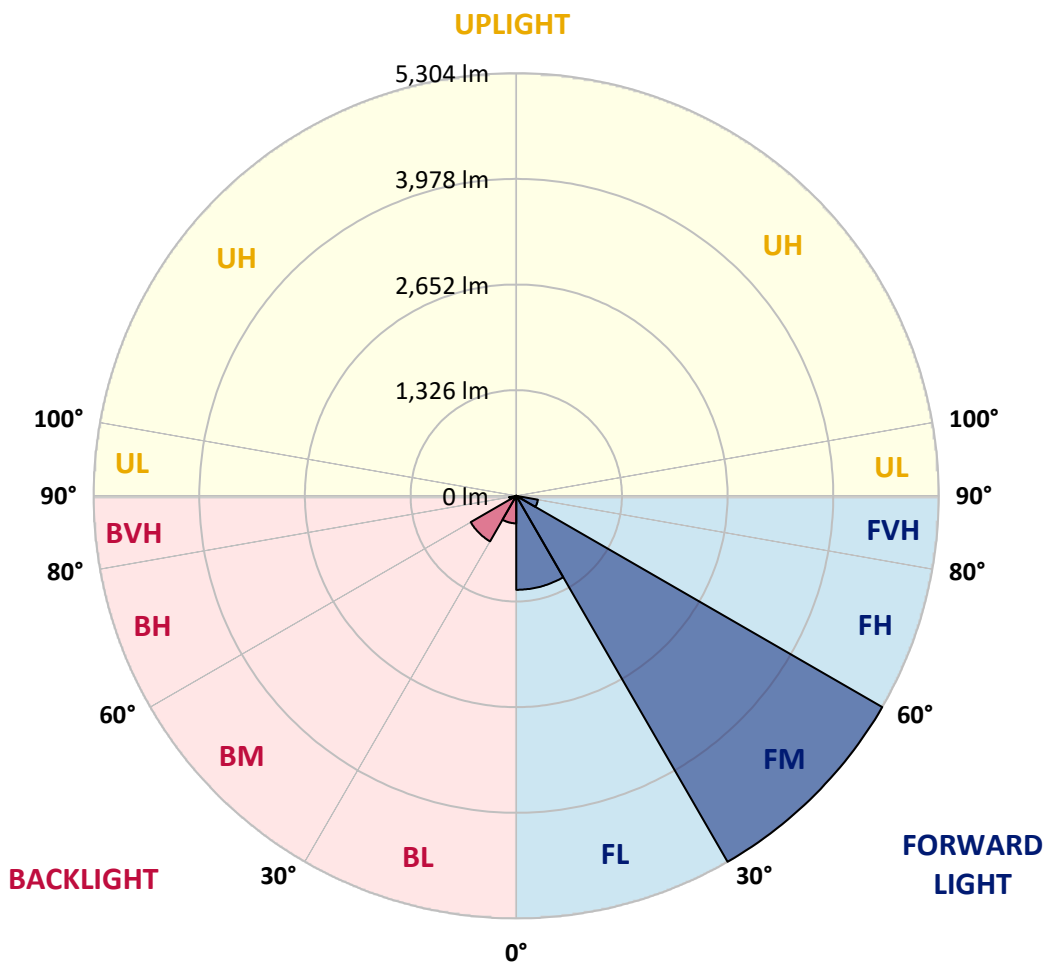
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.6	15.0			
FM (30°-60°)	5303.7	67.4			
FH (60°-80°)	276.6	3.5			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	345.6	4.4	B1/500		
BM (30°-60°)	659.7	8.4	B1/1000		
BH (60°-80°)	86.7	1.1	B0/110		G0/110
BVH (80°-90°)	6.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5
2.5°	1066.6	1058.8	1042.0	1011.0	998.1	967.1	949.0	914.0	892.0	867.5	840.3
5°	1502.3	1462.2	1437.6	1402.7	1300.6	1237.3	1132.5	1043.3	1002.0	956.7	894.7
7.5°	1952.2	1926.3	1892.8	1817.7	1747.9	1616.1	1436.3	1239.8	1155.8	1078.2	955.4
10°	2324.5	2252.1	2248.2	2192.7	2116.4	1958.7	1742.7	1498.4	1348.5	1234.7	1042.0
12.5°	2584.4	2518.5	2548.1	2541.8	2470.6	2325.8	2076.3	1753.1	1596.6	1419.5	1131.2
15°	2821.0	2793.8	2784.8	2777.0	2748.6	2641.2	2417.6	2063.4	1837.2	1623.8	1232.1
17.5°	3052.4	2982.6	3016.2	3022.6	3020.0	2923.1	2713.7	2358.2	2091.8	1839.7	1338.1
20°	3257.9	3264.4	3219.2	3210.1	3202.4	3198.5	2994.2	2650.3	2404.7	2065.9	1476.5
22.5°	3521.7	3476.4	3516.6	3490.7	3440.3	3409.2	3252.8	2908.9	2676.1	2338.7	1617.3
25°	3833.3	3869.4	3775.1	3764.7	3709.1	3601.8	3461.0	3198.5	2937.4	2592.1	1769.9
27.5°	4217.3	4153.9	4129.3	4072.5	3971.6	3926.4	3760.9	3497.1	3252.8	2858.5	1917.3
30°	4547.0	4530.1	4407.3	4340.1	4252.2	4250.8	4019.5	3901.8	3663.9	3276.0	2120.2
32.5°	4815.8	4742.1	4696.9	4650.3	4579.2	4598.6	4403.4	4341.3	4102.1	3663.9	2359.4
35°	4995.5	4942.6	4915.4	4844.2	4823.6	4910.2	4828.8	4802.9	4606.4	4209.5	2640.0
37.5°	5052.4	5069.2	5064.1	4974.9	5018.8	5252.8	5357.5	5290.3	5186.9	4784.8	2943.8
40°	5102.9	5114.5	5088.6	5193.3	5318.7	5585.1	5963.9	5852.7	5813.9	5367.9	3366.5
42.5°	5131.3	5122.2	5122.2	5303.3	5493.2	6028.5	6549.5	6475.9	6446.1	5988.4	3855.2
45°	5008.5	4920.5	5014.9	5260.5	5643.3	6247.0	7017.6	7119.7	7077.0	6726.7	4426.7
47.5°	4549.5	4603.8	4656.8	4985.2	5460.9	6179.8	7304.5	7652.3	7731.1	7347.2	4801.6
50°	3855.2	3843.6	3953.5	4367.2	4945.1	5890.2	7248.9	7806.2	7949.6	7533.3	4880.5
52.5°	2804.1	2889.5	3008.4	3419.6	4104.8	5140.4	6531.5	7409.3	7600.6	7304.5	4828.8
55°	1632.9	1538.4	1806.1	2153.9	2800.3	3877.3	5521.8	6567.6	6921.9	6888.2	4567.6
57.5°	654.2	633.5	725.3	977.4	1460.9	2403.4	4015.5	5396.3	5963.9	6309.0	4014.3
60°	287.0	280.6	329.7	398.2	597.3	1107.9	2196.5	3356.2	3948.3	4408.6	2762.8
62.5°	206.9	204.3	228.8	253.4	315.5	482.2	923.1	1352.3	1685.9	2036.2	1237.3
65°	166.8	173.2	190.1	203.0	232.7	267.6	325.8	376.2	461.5	478.4	272.8
67.5°	135.7	141.0	156.4	170.6	175.9	144.8	150.0	131.9	131.9	117.7	94.4
70°	99.6	100.8	118.9	135.7	108.6	58.2	102.1	102.1	91.8	87.9	80.1
72.5°	73.7	75.0	89.2	84.0	42.6	36.2	75.0	82.8	75.0	71.1	64.7
75°	54.3	55.6	46.5	19.4	18.1	23.3	44.0	56.9	54.3	53.0	49.1
77.5°	10.3	7.7	6.5	9.1	13.0	19.4	28.4	34.9	36.2	38.8	36.2
80°	1.3	1.3	3.9	7.7	14.2	20.7	29.8	33.6	34.9	36.2	33.6
82.5°	0.0	1.3	3.9	7.7	14.2	19.4	25.8	29.8	32.3	33.6	32.3
85°	0.0	1.3	2.6	6.5	11.6	14.2	13.0	9.1	7.7	9.1	6.5
87.5°	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5
2.5°	824.9	819.6	801.6	782.1	765.4	773.1	765.4	758.9	761.4	758.9	756.3
5°	870.1	846.8	808.0	791.2	777.0	775.7	771.8	770.5	771.8	771.8	760.2
7.5°	912.7	875.2	833.9	815.8	798.9	800.3	791.2	791.2	790.0	783.5	780.9
10°	977.4	927.0	874.0	841.7	821.0	817.1	808.0	798.9	798.9	798.9	786.1
12.5°	1048.5	985.1	912.7	875.2	850.7	831.3	817.1	814.5	800.3	797.7	791.2
15°	1110.5	1030.4	938.6	886.9	855.9	830.0	808.0	793.8	787.3	783.5	778.3
17.5°	1171.3	1069.2	952.9	886.9	853.3	823.5	800.3	787.3	771.8	774.4	764.0
20°	1252.8	1110.5	956.7	870.1	828.7	800.3	769.3	762.8	753.7	746.0	748.6
22.5°	1331.6	1140.3	945.0	849.4	790.0	756.3	740.8	733.0	729.1	722.7	713.7
25°	1402.7	1172.6	927.0	811.9	748.6	724.0	709.8	708.5	699.5	699.5	682.6
27.5°	1475.1	1184.2	895.9	767.9	712.3	698.1	691.6	689.1	685.2	676.2	664.6
30°	1557.9	1188.1	850.7	722.7	680.0	664.6	673.6	680.0	663.2	646.4	651.6
32.5°	1626.4	1179.1	796.4	680.0	656.7	649.0	667.1	673.6	654.2	636.0	627.0
35°	1709.2	1157.1	743.4	646.4	633.5	649.0	664.6	664.6	625.7	603.8	598.6
37.5°	1834.6	1132.5	694.2	618.0	609.0	641.3	662.0	647.7	586.9	559.8	553.3
40°	1969.0	1117.0	646.4	589.5	596.0	628.3	639.9	596.0	534.0	517.1	512.0
42.5°	2164.2	1086.0	603.8	565.0	584.3	610.2	610.2	531.3	508.0	499.0	497.7
45°	2407.3	1064.0	566.2	544.3	567.6	574.0	553.3	497.7	481.0	478.4	479.6
47.5°	2526.2	1021.3	527.5	519.7	536.6	537.8	483.5	470.6	456.4	452.5	449.9
50°	2508.1	945.0	477.1	487.4	510.7	497.7	440.9	443.5	430.5	429.2	422.8
52.5°	2381.4	824.9	426.6	451.2	477.1	439.6	406.0	403.3	403.3	386.5	380.1
55°	2111.2	664.6	365.8	396.9	427.9	369.8	360.7	358.1	351.6	336.1	332.3
57.5°	1671.7	487.4	275.3	309.0	363.3	314.2	312.9	301.2	284.4	272.8	272.8
60°	994.2	280.6	173.2	188.7	240.4	254.7	283.2	278.0	249.5	231.4	226.2
62.5°	453.8	144.8	109.9	112.4	129.3	165.5	222.4	257.3	217.2	186.2	183.6
65°	152.6	107.3	90.5	86.6	89.2	99.6	133.1	182.3	173.2	143.5	138.3
67.5°	93.1	95.7	85.4	78.9	78.9	77.5	76.3	82.8	102.1	99.6	100.8
70°	80.1	87.9	78.9	71.1	68.5	64.7	54.3	45.2	38.8	45.2	47.9
72.5°	64.7	69.8	67.2	60.8	54.3	49.1	38.8	29.8	22.0	19.4	19.4
75°	47.9	51.7	54.3	46.5	41.4	34.9	28.4	19.4	11.6	7.7	7.7
77.5°	34.9	38.8	40.1	36.2	31.0	24.6	18.1	13.0	6.5	2.6	2.6
80°	29.8	34.9	38.8	36.2	32.3	23.3	16.8	9.1	5.1	1.3	1.3
82.5°	28.4	34.9	38.8	34.9	31.0	22.0	16.8	10.3	3.9	1.3	1.3
85°	6.5	9.1	11.6	14.2	16.8	16.8	13.0	7.7	3.9	1.3	1.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	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)