

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: P451545

Luminaire Tested: **GALN-SA2B-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451545
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-SA2B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 6676 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

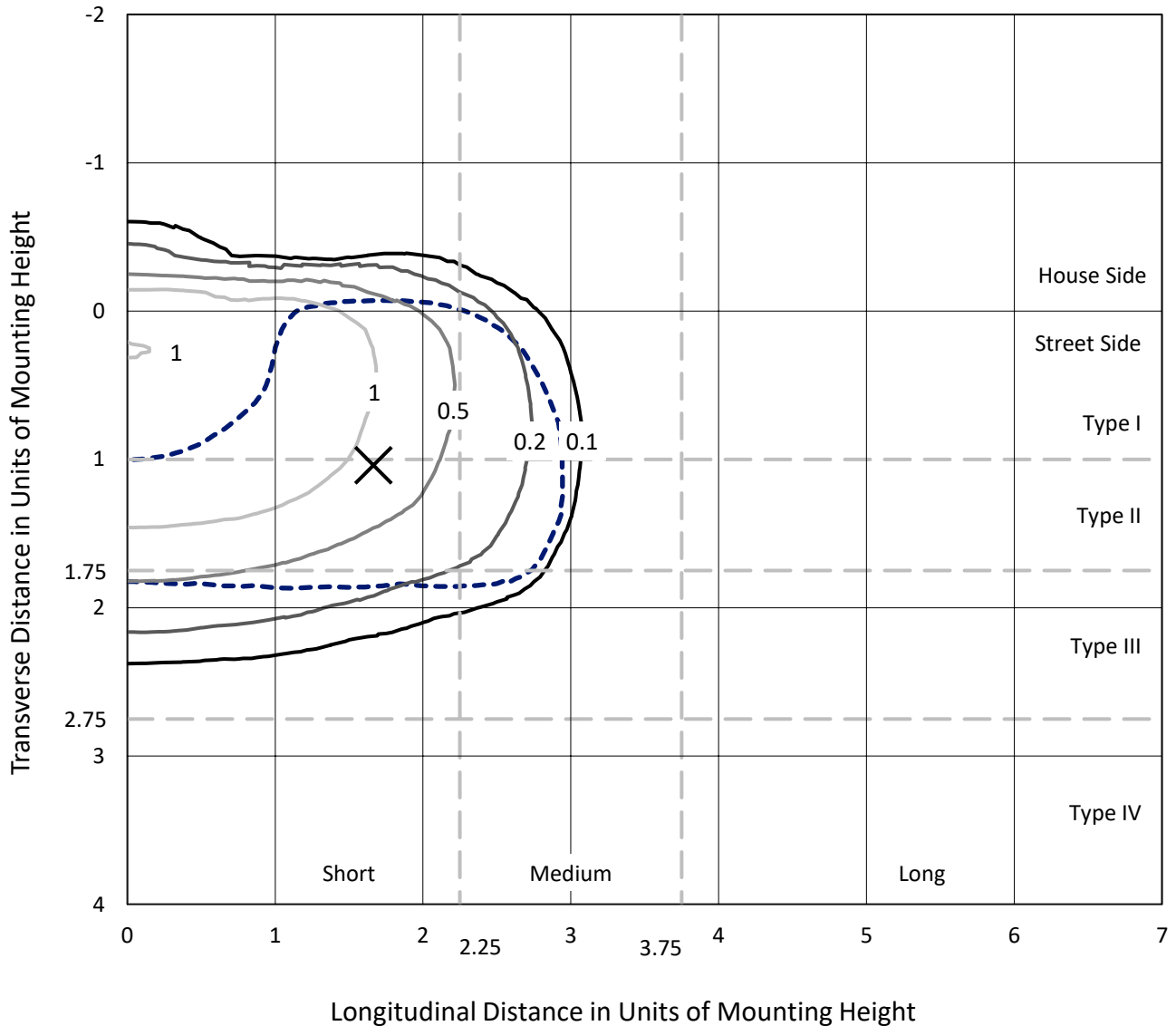
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

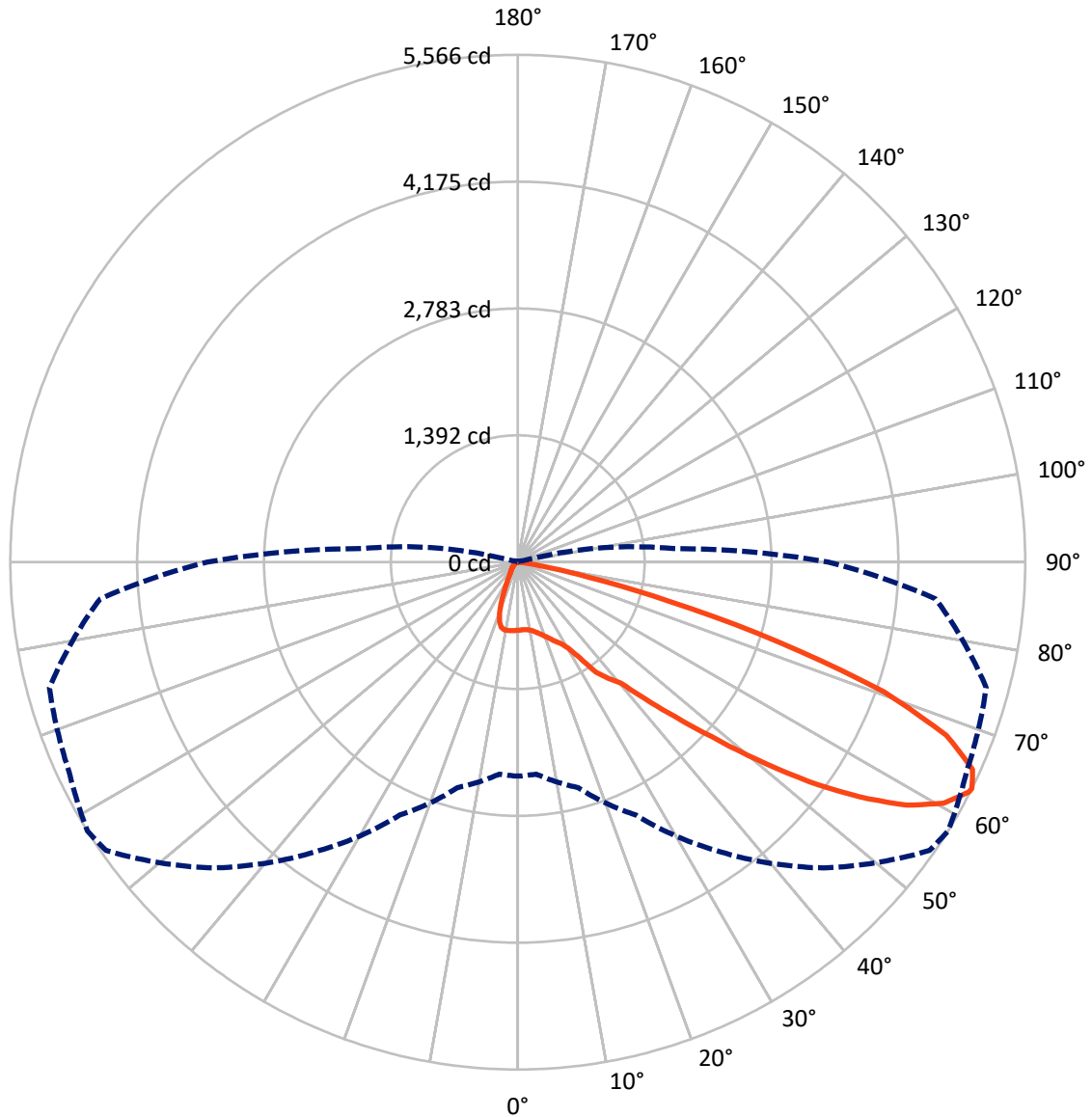
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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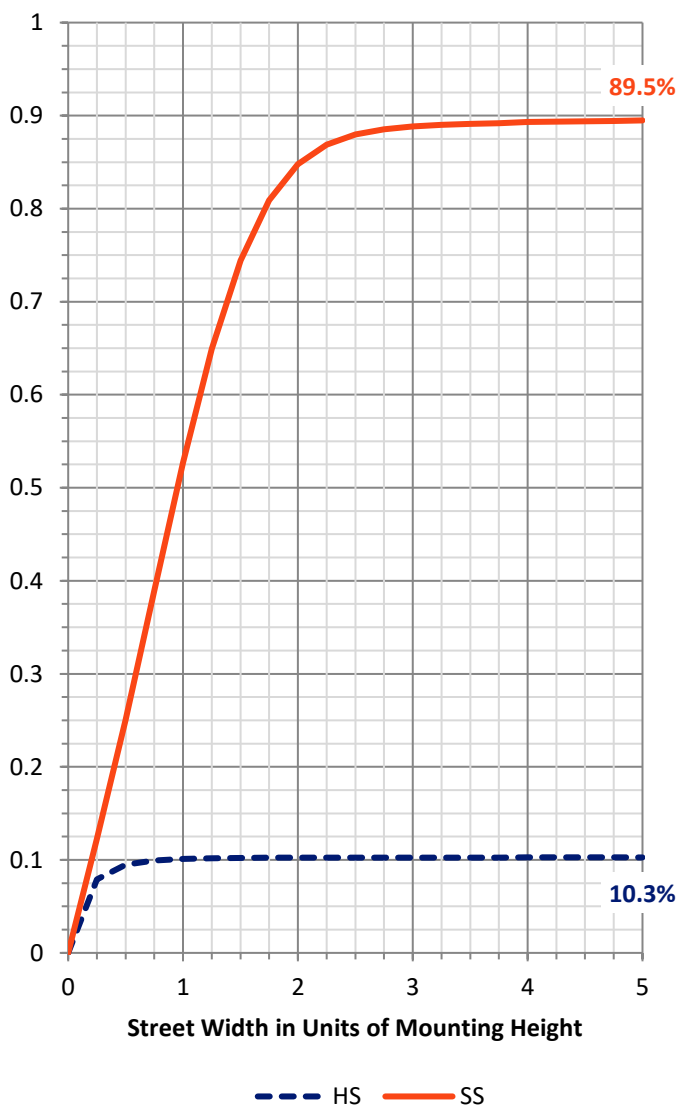
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.2	0.0	691.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5984.8	0.0	5984.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	6676.0	0.0	6676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.0
10°-20°	190.6	2.9
20°-30°	330.7	5.0
30°-40°	607.8	9.1
40°-50°	1144.1	17.1
50°-60°	1956.9	29.3
60°-70°	1873.7	28.1
70°-80°	477.8	7.2
80°-90°	24.4	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°	6676.0	100.0
0°-180°	6676.0	100.0

Coefficient of Utilization



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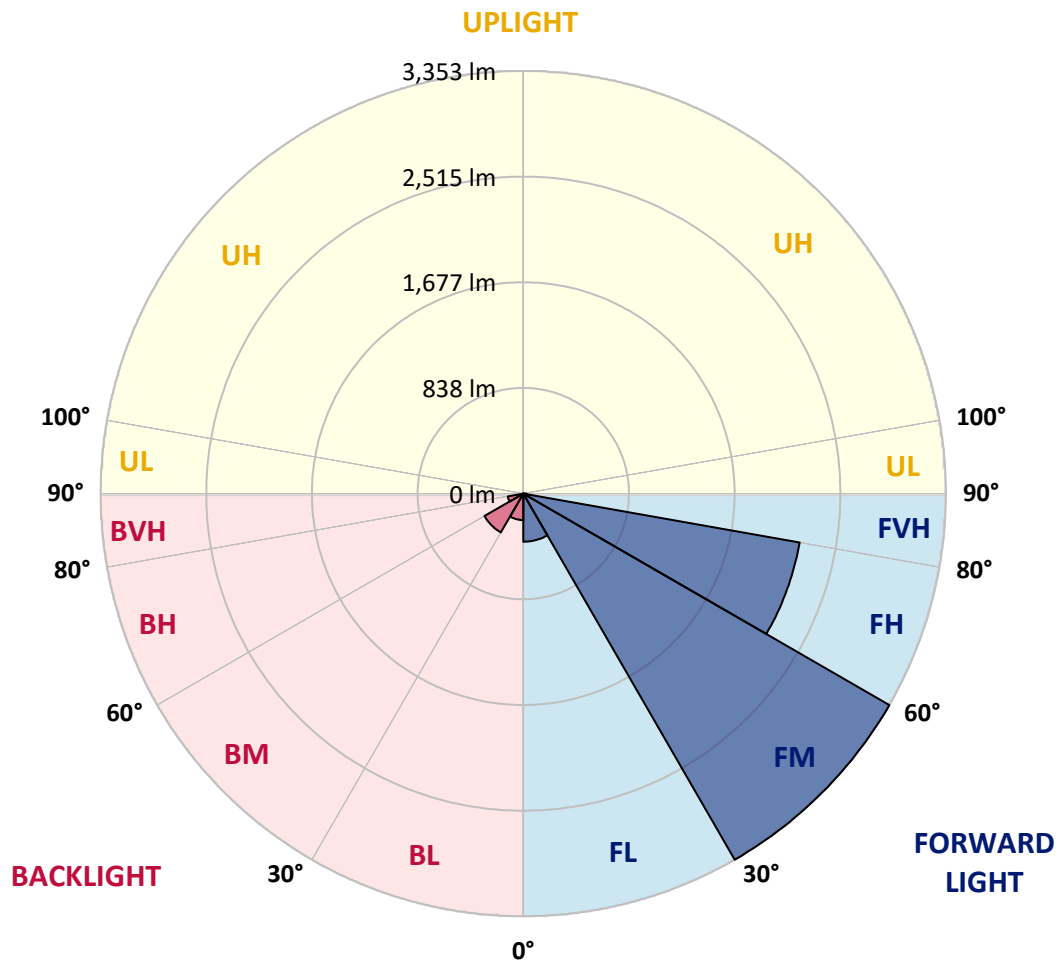
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.6	5.7			
FM	(30°-60°)	3353.2	50.2			
FH	(60°-80°)	2226.4	33.3			G2/5000
FVH	(80°-90°)	23.5	0.4			G1/100
BL	(0°-30°)	209.6	3.1	B1/500		
BM	(30°-60°)	355.5	5.3	B1/1000		
BH	(60°-80°)	125.1	1.9	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4
2.5°	728.8	731.3	733.8	734.8	738.4	741.9	744.4	743.9	747.9	749.9	749.9
5°	699.7	699.7	706.2	712.2	722.3	732.3	741.9	743.9	751.4	758.5	761.0
7.5°	675.0	676.5	681.6	692.6	706.2	723.8	742.9	747.4	760.5	776.1	782.6
10°	663.5	664.5	671.0	682.6	699.7	723.8	750.4	759.0	779.1	803.7	812.7
12.5°	661.0	662.5	669.0	682.1	701.7	730.8	767.0	776.1	805.2	836.9	850.4
15°	665.5	666.5	673.0	687.1	708.7	743.4	789.1	801.7	836.4	873.1	890.7
17.5°	681.6	680.6	685.1	696.6	720.8	759.0	815.8	830.8	871.6	921.8	933.4
20°	749.9	743.4	739.4	729.3	738.9	781.1	847.9	870.0	920.3	971.6	979.6
22.5°	897.2	882.6	854.0	814.8	784.6	811.2	886.6	912.3	977.1	1027.4	1027.4
25°	1084.7	1066.1	1037.4	952.0	878.1	861.0	930.4	962.5	1038.9	1089.7	1073.1
27.5°	1319.4	1304.8	1249.0	1149.5	1036.4	948.0	981.1	1010.8	1093.7	1155.0	1120.4
30°	1510.4	1503.4	1457.6	1368.6	1244.0	1114.8	1075.6	1095.2	1166.6	1237.5	1201.8
32.5°	1671.7	1671.7	1625.0	1542.1	1425.4	1310.8	1236.0	1250.0	1318.4	1400.3	1334.0
35°	1849.2	1843.1	1805.4	1726.5	1595.8	1494.8	1464.1	1483.2	1545.1	1605.9	1442.5
37.5°	2035.6	2033.6	1994.4	1918.0	1811.5	1684.3	1612.4	1617.4	1649.1	1686.3	1569.7
40°	2238.2	2241.2	2189.9	2142.7	2042.2	1912.0	1774.3	1742.6	1772.3	1877.3	1804.4
42.5°	2477.4	2470.4	2448.3	2384.0	2303.0	2225.1	2059.8	2048.2	2074.3	2186.9	2108.0
45°	2755.4	2765.4	2727.2	2691.6	2637.3	2572.4	2434.2	2414.1	2442.8	2617.7	2505.6
47.5°	3033.8	3024.3	3048.9	3042.4	3071.5	3023.3	2901.2	2859.9	2928.8	3094.7	2929.8
50°	3246.0	3256.5	3307.8	3382.7	3507.8	3535.0	3417.9	3403.8	3434.4	3541.0	3309.3
52.5°	3383.7	3418.9	3499.3	3691.8	3917.5	4092.9	4003.9	3996.4	3983.8	4012.5	3672.2
55°	3473.6	3509.3	3614.4	3897.9	4286.4	4571.4	4575.9	4543.7	4460.8	4440.2	4011.5
57.5°	3418.4	3425.4	3575.2	3954.2	4491.0	4912.7	5060.4	5028.3	4875.0	4797.1	4311.0
60°	3072.5	3087.1	3295.7	3741.0	4402.0	5024.2	5381.6	5367.0	5199.2	5111.2	4544.2
62.5°	2459.8	2502.1	2716.7	3213.3	3988.3	4836.3	5511.8	5553.0	5422.3	5301.2	4617.6
63°	2347.3	2333.7	2560.4	3059.5	3878.8	4743.3	5513.8	5566.1	5432.4	5319.3	4597.5
65°	1737.6	1778.3	1925.6	2412.6	3227.9	4310.5	5389.7	5482.1	5395.2	5239.4	4374.9
67.5°	975.6	973.6	1136.4	1578.7	2259.3	3381.2	4873.5	5069.0	5050.9	4701.6	3626.4
70°	477.5	485.0	551.9	818.3	1310.3	2332.7	4049.7	4260.8	4267.3	3692.8	2507.6
72.5°	216.1	219.6	267.4	398.6	673.5	1242.0	2790.6	2992.1	2954.9	2353.3	1384.7
75°	114.1	121.6	147.3	200.5	324.7	512.2	1517.9	1712.9	1635.0	1075.1	509.7
77.5°	84.4	87.0	100.0	127.7	173.9	199.5	654.9	779.1	729.8	389.0	168.9
80°	61.8	63.8	74.4	90.5	109.6	101.5	246.8	283.0	253.8	132.2	51.8
82.5°	37.7	38.2	54.3	67.4	68.9	56.8	81.4	87.5	91.5	74.4	28.1
85°	13.6	17.1	36.7	48.8	40.7	28.6	34.2	37.7	41.2	47.2	16.6
87.5°	1.5	2.0	17.6	23.6	11.6	10.6	12.6	14.1	15.1	17.6	8.0
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°	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4	747.4
2.5°	751.9	753.9	752.4	749.9	749.4	747.9	744.9	744.9	744.9	745.9	744.9
5°	763.0	764.5	761.0	755.9	750.4	743.4	735.8	731.3	730.8	729.8	727.3
7.5°	784.1	786.1	778.1	766.0	750.9	733.8	717.7	702.7	695.6	690.1	690.1
10°	814.8	816.8	800.7	779.1	748.9	714.2	676.0	641.4	614.2	601.6	598.6
12.5°	851.4	852.5	825.8	788.1	738.4	671.5	590.1	514.2	461.4	437.3	434.8
15°	891.7	884.6	849.4	791.6	708.2	583.5	442.8	349.8	295.0	279.0	285.0
17.5°	932.4	919.3	867.5	786.1	640.3	442.8	297.6	238.7	221.7	217.1	217.1
20°	970.6	952.5	880.6	762.0	522.7	305.1	220.7	206.6	203.6	200.5	201.1
22.5°	1008.8	981.1	892.2	708.2	389.5	218.1	197.5	193.0	189.0	185.0	184.5
25°	1046.0	1007.8	896.7	608.7	265.4	187.5	180.4	174.4	166.4	161.8	160.8
27.5°	1084.7	1039.9	893.7	483.0	193.5	167.9	160.8	152.3	142.7	134.7	134.7
30°	1159.1	1101.3	883.1	347.3	162.9	147.8	138.7	125.2	114.6	106.6	106.1
32.5°	1260.6	1181.2	846.9	244.3	144.8	130.2	116.6	101.5	90.5	84.4	84.4
35°	1351.1	1261.6	779.1	179.9	130.2	113.1	96.5	81.9	73.4	69.4	67.9
37.5°	1488.8	1379.2	685.6	146.3	116.1	98.0	80.9	67.4	60.3	57.3	57.3
40°	1695.4	1523.0	571.0	128.2	102.5	83.4	67.4	56.8	51.3	47.7	47.7
42.5°	1951.7	1698.9	454.9	115.1	90.0	71.9	56.3	48.3	43.2	40.7	40.2
45°	2274.4	1884.3	350.3	103.0	79.9	61.3	47.7	40.7	35.7	34.2	34.7
47.5°	2611.1	2047.7	271.4	92.5	69.4	51.8	40.7	35.2	31.7	29.7	29.7
50°	2898.6	2160.3	206.1	80.4	61.3	43.7	35.7	31.7	28.6	27.6	27.1
52.5°	3138.9	2193.0	157.8	69.9	53.8	37.7	31.7	28.6	26.1	24.6	24.6
55°	3343.5	2164.3	123.6	58.8	45.2	32.7	28.1	25.6	22.6	21.1	20.6
57.5°	3463.1	2072.3	94.5	48.8	36.7	27.1	24.6	21.6	18.1	15.6	15.6
60°	3523.4	1938.6	72.4	40.2	28.1	21.6	20.1	16.1	12.6	10.6	10.1
62.5°	3451.0	1761.2	54.8	31.7	21.1	16.1	13.6	11.6	8.0	6.0	6.0
63°	3406.3	1709.9	52.8	30.2	19.6	15.1	12.6	10.6	7.0	5.5	5.0
65°	3105.2	1486.3	43.2	24.1	15.6	10.6	8.5	7.5	5.0	2.5	2.0
67.5°	2465.9	1136.9	34.2	18.1	11.1	7.5	5.0	4.5	1.5	0.0	0.0
70°	1667.2	734.3	26.6	13.1	7.5	4.5	2.5	2.0	0.5	0.0	0.0
72.5°	869.5	376.5	20.6	9.5	4.5	3.0	1.5	0.5	0.0	0.0	0.0
75°	307.6	128.2	15.1	6.0	3.0	1.5	0.5	0.0	0.0	0.0	0.0
77.5°	93.0	47.7	9.5	4.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	32.7	17.6	5.5	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	8.5	3.5	2.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	9.0	5.5	3.0	2.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	4.0	3.0	2.5	2.0	1.0	0.5	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)