

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: P527253

Luminaire Tested: **GALN-SA2B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527253
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-SA2B-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 6893 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

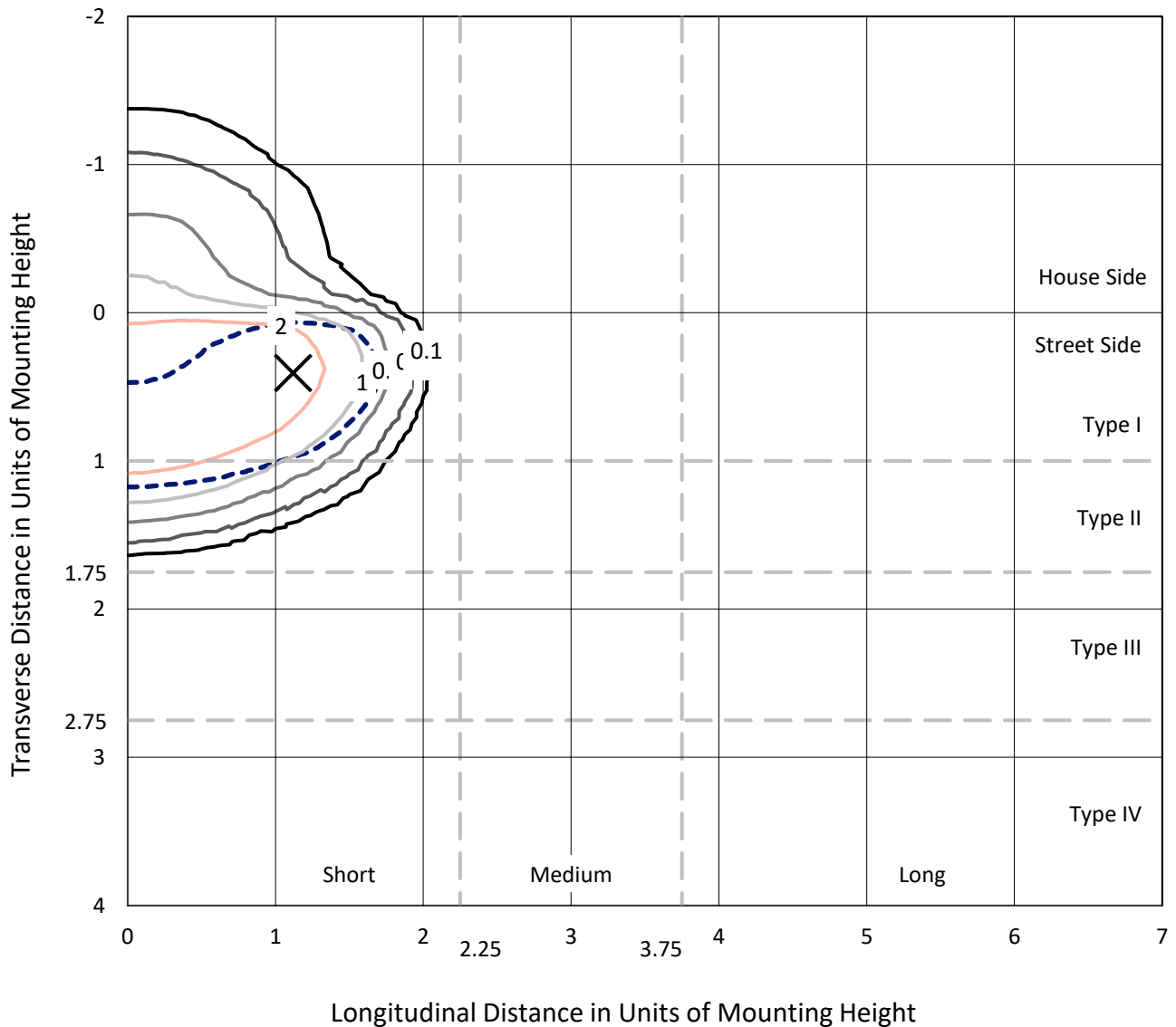
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

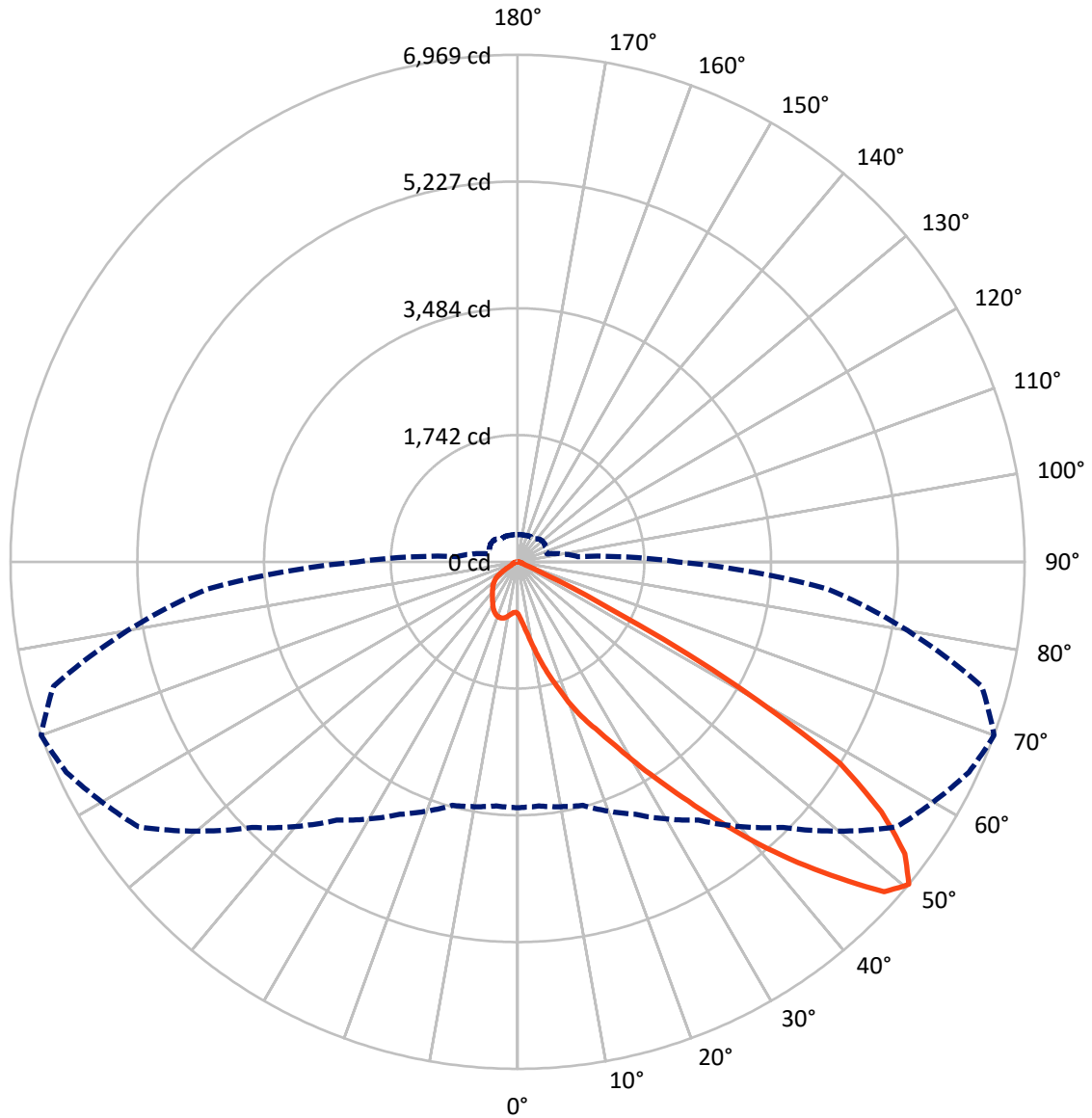
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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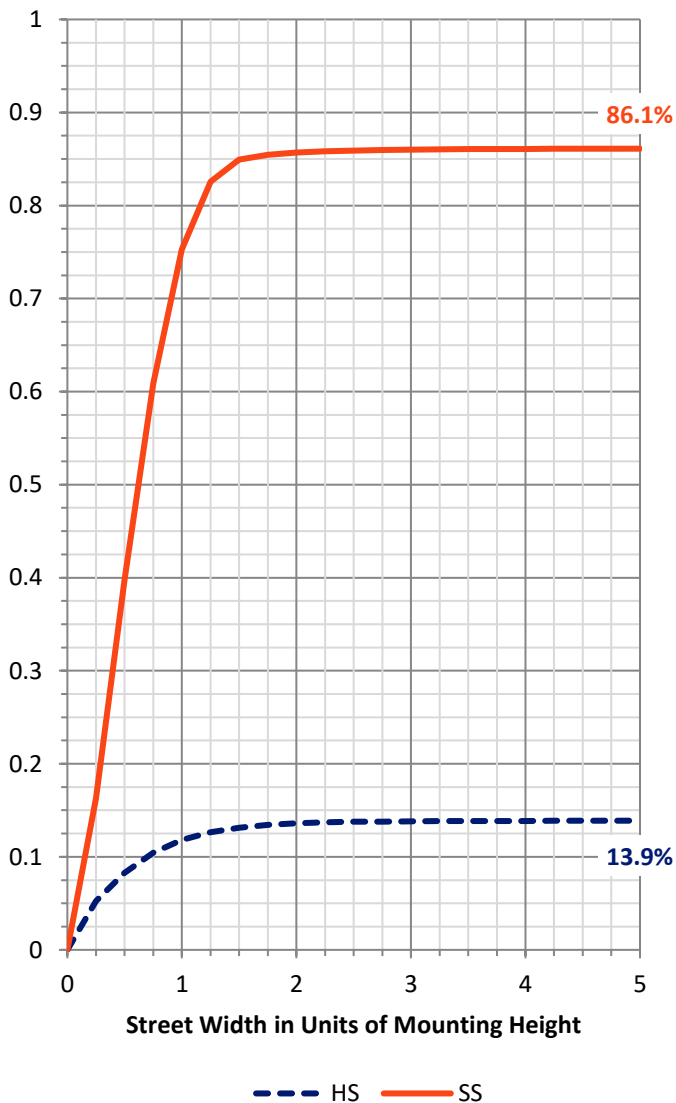
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.7	0.0	962.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5930.3	0.0	5930.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	6893.0	0.0	6893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	1.3
10°-20°	401.6	5.8
20°-30°	842.5	12.2
30°-40°	1452.2	21.1
40°-50°	2122.4	30.8
50°-60°	1653.0	24.0
60°-70°	280.1	4.1
70°-80°	38.5	0.6
80°-90°	10.0	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°	6893.0	100.0
0°-180°	6893.0	100.0

Coefficient of Utilization

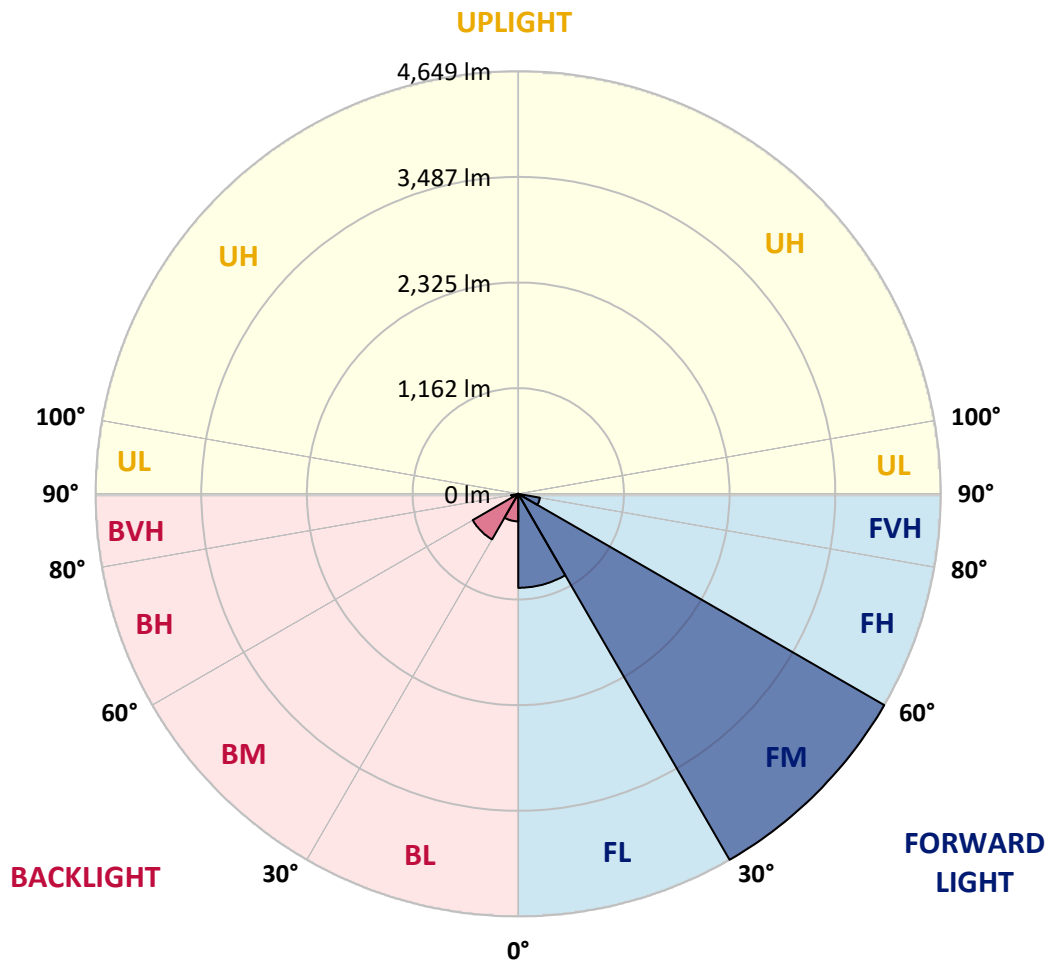


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.0	15.0			
FM (30°-60°)	4649.2	67.4			
FH (60°-80°)	242.5	3.5			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	302.9	4.4	B1/500		
BM (30°-60°)	578.3	8.4	B1/1000		
BH (60°-80°)	76.0	1.1	B0/110		G0/110
BVH (80°-90°)	5.4	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°	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
2.5°	935.0	928.2	913.4	886.2	874.9	847.7	831.8	801.2	782.0	760.4	736.6
5°	1316.9	1281.8	1260.2	1229.6	1140.1	1084.6	992.8	914.6	878.3	838.6	784.2
7.5°	1711.3	1688.6	1659.2	1593.4	1532.2	1416.6	1259.1	1086.8	1013.2	945.2	837.5
10°	2037.7	1974.2	1970.8	1922.1	1855.2	1716.9	1527.7	1313.5	1182.0	1082.3	913.4
12.5°	2265.5	2207.7	2233.7	2228.1	2165.7	2038.8	1820.1	1536.8	1399.6	1244.4	991.6
15°	2472.9	2449.1	2441.1	2434.3	2409.4	2315.3	2119.3	1808.7	1610.4	1423.4	1080.0
17.5°	2675.7	2614.5	2644.0	2649.7	2647.4	2562.4	2378.8	2067.1	1833.7	1612.7	1173.0
20°	2855.9	2861.6	2821.9	2814.0	2807.2	2803.8	2624.7	2323.3	2107.9	1811.0	1294.2
22.5°	3087.1	3047.4	3082.6	3059.9	3015.7	2988.5	2851.4	2549.9	2345.9	2050.1	1417.8
25°	3360.2	3392.0	3309.2	3300.2	3251.4	3157.4	3033.8	2803.8	2574.9	2272.3	1551.5
27.5°	3696.8	3641.3	3619.8	3569.9	3481.5	3441.8	3296.8	3065.6	2851.4	2505.7	1680.7
30°	3985.8	3971.1	3863.4	3804.5	3727.4	3726.3	3523.4	3420.3	3211.8	2871.8	1858.6
32.5°	4221.5	4156.9	4117.3	4076.5	4014.1	4031.1	3860.0	3805.6	3596.0	3211.8	2068.3
35°	4379.1	4332.6	4308.8	4246.5	4228.3	4304.3	4232.9	4210.2	4037.9	3690.0	2314.2
37.5°	4428.9	4443.7	4439.1	4360.9	4399.5	4604.6	4696.4	4637.5	4546.8	4194.3	2580.5
40°	4473.1	4483.3	4460.7	4552.5	4662.4	4895.9	5227.9	5130.4	5096.5	4705.5	2951.1
42.5°	4498.1	4490.1	4490.1	4648.8	4815.4	5284.6	5741.3	5676.7	5650.6	5249.4	3379.5
45°	4390.4	4313.3	4396.1	4611.4	4946.9	5476.1	6151.6	6241.1	6203.7	5896.6	3880.4
47.5°	3988.1	4035.7	4082.1	4370.0	4787.1	5417.2	6403.1	6708.0	6777.1	6440.5	4209.1
50°	3379.5	3369.3	3465.6	3828.3	4334.9	5163.3	6354.4	6842.9	6968.7	6603.7	4278.2
52.5°	2458.1	2532.9	2637.2	2997.6	3598.2	4506.0	5725.4	6494.9	6662.7	6403.1	4232.9
55°	1431.4	1348.6	1583.2	1888.1	2454.7	3398.8	4840.3	5757.2	6067.7	6038.2	4003.9
57.5°	573.4	555.3	635.8	856.8	1280.6	2106.8	3520.0	4730.4	5227.9	5530.5	3518.9
60°	251.6	245.9	289.0	349.1	523.6	971.2	1925.5	2942.0	3461.1	3864.6	2421.9
62.5°	181.3	179.1	200.6	222.1	276.5	422.7	809.2	1185.4	1477.8	1784.9	1084.6
65°	146.2	151.9	166.6	177.9	204.0	234.6	285.6	329.8	404.6	419.3	239.1
67.5°	119.0	123.5	137.1	149.6	154.1	126.9	131.5	115.6	115.6	103.1	82.7
70°	87.3	88.4	104.3	119.0	95.2	51.0	89.5	89.5	80.5	77.1	70.3
72.5°	64.6	65.7	78.2	73.7	37.4	31.7	65.7	72.5	65.7	62.3	56.7
75°	47.6	48.7	40.8	17.0	15.9	20.4	38.5	49.9	47.6	46.5	43.1
77.5°	9.1	6.8	5.7	7.9	11.3	17.0	24.9	30.6	31.7	34.0	31.7
80°	1.1	1.1	3.4	6.8	12.5	18.1	26.1	29.5	30.6	31.7	29.5
82.5°	0.0	1.1	3.4	6.8	12.5	17.0	22.7	26.1	28.3	29.5	28.3
85°	0.0	1.1	2.3	5.7	10.2	12.5	11.3	7.9	6.8	7.9	5.7
87.5°	0.0	0.0	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
2.5°	723.0	718.5	702.6	685.6	670.9	677.7	670.9	665.2	667.5	665.2	663.0
5°	762.7	742.3	708.3	693.6	681.1	680.0	676.6	675.4	676.6	676.6	666.4
7.5°	800.1	767.2	731.0	715.1	700.4	701.5	693.6	693.6	692.4	686.8	684.5
10°	856.8	812.6	766.1	737.8	719.6	716.2	708.3	700.4	700.4	700.4	689.0
12.5°	919.1	863.6	800.1	767.2	745.7	728.7	716.2	714.0	701.5	699.2	693.6
15°	973.5	903.2	822.8	777.4	750.2	727.6	708.3	695.8	690.2	686.8	682.2
17.5°	1026.8	937.2	835.2	777.4	748.0	721.9	701.5	690.2	676.6	678.8	669.8
20°	1098.2	973.5	838.6	762.7	726.4	701.5	674.3	668.6	660.7	653.9	656.2
22.5°	1167.3	999.6	828.4	744.6	692.4	663.0	649.4	642.6	639.2	633.5	625.6
25°	1229.6	1027.9	812.6	711.7	656.2	634.6	622.2	621.0	613.1	613.1	598.4
27.5°	1293.1	1038.1	785.4	673.2	624.4	612.0	606.3	604.0	600.6	592.7	582.5
30°	1365.6	1041.5	745.7	633.5	596.1	582.5	590.4	596.1	581.4	566.7	571.2
32.5°	1425.7	1033.6	698.1	596.1	575.7	568.9	584.8	590.4	573.4	557.6	549.7
35°	1498.2	1014.3	651.6	566.7	555.3	568.9	582.5	582.5	548.5	529.3	524.7
37.5°	1608.2	992.8	608.6	541.7	533.8	562.1	580.2	567.8	514.5	490.7	485.1
40°	1726.0	979.2	566.7	516.8	522.5	550.8	561.0	522.5	468.1	453.3	448.8
42.5°	1897.1	952.0	529.3	495.3	512.3	534.9	534.9	465.8	445.4	437.5	436.3
45°	2110.2	932.7	496.4	477.1	497.5	503.2	485.1	436.3	421.6	419.3	420.5
47.5°	2214.5	895.3	462.4	455.6	470.3	471.5	423.9	412.5	400.1	396.7	394.4
50°	2198.6	828.4	418.2	427.3	447.7	436.3	386.5	388.7	377.4	376.3	370.6
52.5°	2087.5	723.0	374.0	395.5	418.2	385.3	355.9	353.6	353.6	338.9	333.2
55°	1850.7	582.5	320.7	347.9	375.1	324.1	316.2	313.9	308.3	294.7	291.3
57.5°	1465.4	427.3	241.4	270.9	318.5	275.4	274.3	264.1	249.3	239.1	239.1
60°	871.5	245.9	151.9	165.5	210.8	223.3	248.2	243.7	218.7	202.9	198.3
62.5°	397.8	126.9	96.3	98.6	113.3	145.1	194.9	225.5	190.4	163.2	160.9
65°	133.7	94.1	79.3	75.9	78.2	87.3	116.7	159.8	151.9	125.8	121.3
67.5°	81.6	83.9	74.8	69.1	69.1	68.0	66.9	72.5	89.5	87.3	88.4
70°	70.3	77.1	69.1	62.3	60.1	56.7	47.6	39.7	34.0	39.7	41.9
72.5°	56.7	61.2	58.9	53.3	47.6	43.1	34.0	26.1	19.3	17.0	17.0
75°	41.9	45.3	47.6	40.8	36.3	30.6	24.9	17.0	10.2	6.8	6.8
77.5°	30.6	34.0	35.1	31.7	27.2	21.5	15.9	11.3	5.7	2.3	2.3
80°	26.1	30.6	34.0	31.7	28.3	20.4	14.7	7.9	4.5	1.1	1.1
82.5°	24.9	30.6	34.0	30.6	27.2	19.3	14.7	9.1	3.4	1.1	1.1
85°	5.7	7.9	10.2	12.5	14.7	14.7	11.3	6.8	3.4	1.1	1.1
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	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)