

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: P527539

Luminaire Tested: **GALN-SA2C-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527539
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-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 9350 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

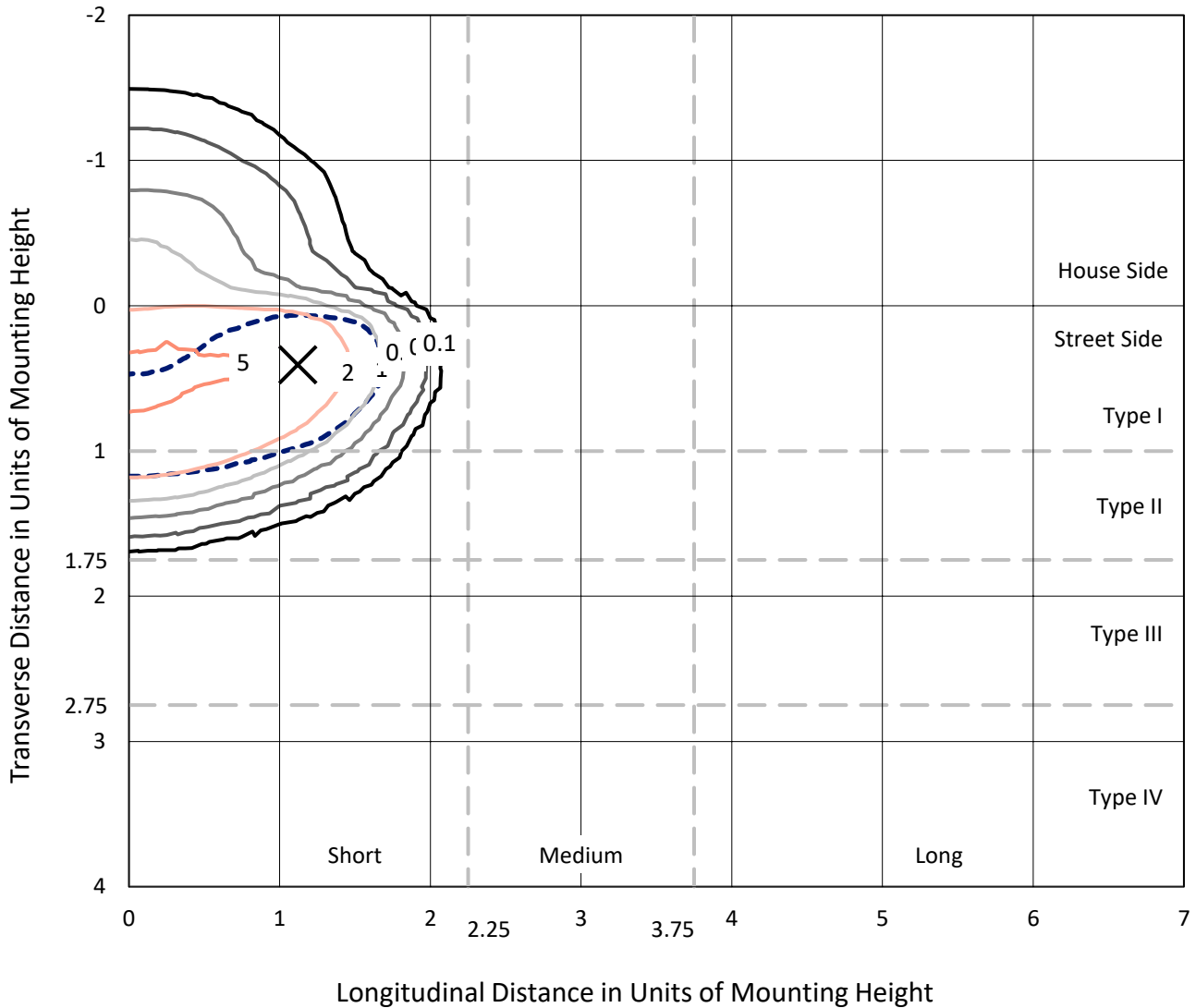
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

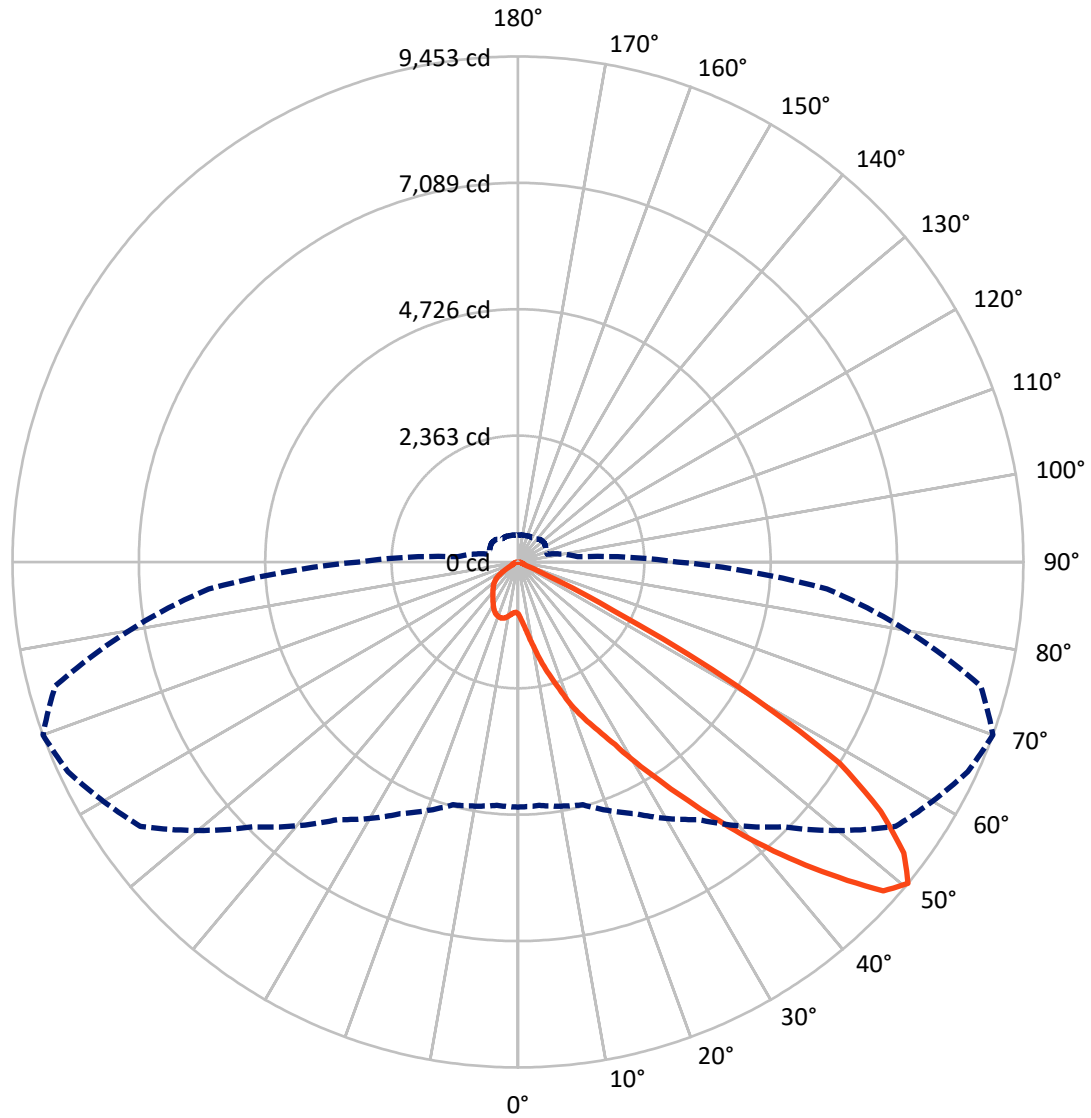
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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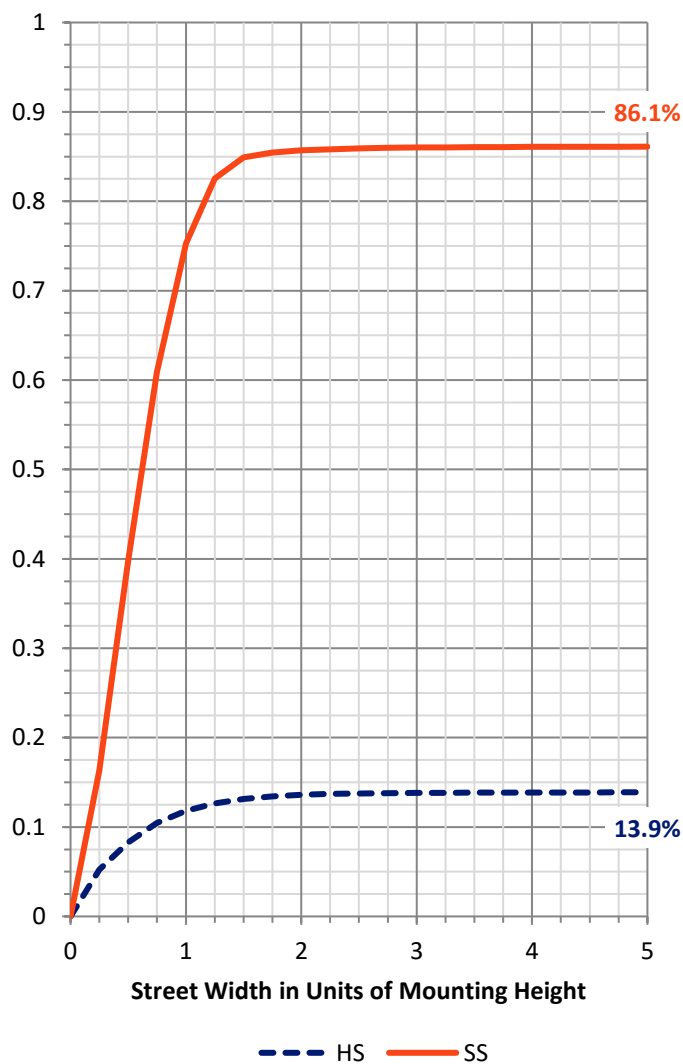
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.8	0.0	1305.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8044.2	0.0	8044.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	9350.0	0.0	9350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.3
10°-20°	544.8	5.8
20°-30°	1142.8	12.2
30°-40°	1969.8	21.1
40°-50°	2878.9	30.8
50°-60°	2242.2	24.0
60°-70°	379.9	4.1
70°-80°	52.2	0.6
80°-90°	13.5	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°	9350.0	100.0
0°-180°	9350.0	100.0

Coefficient of Utilization



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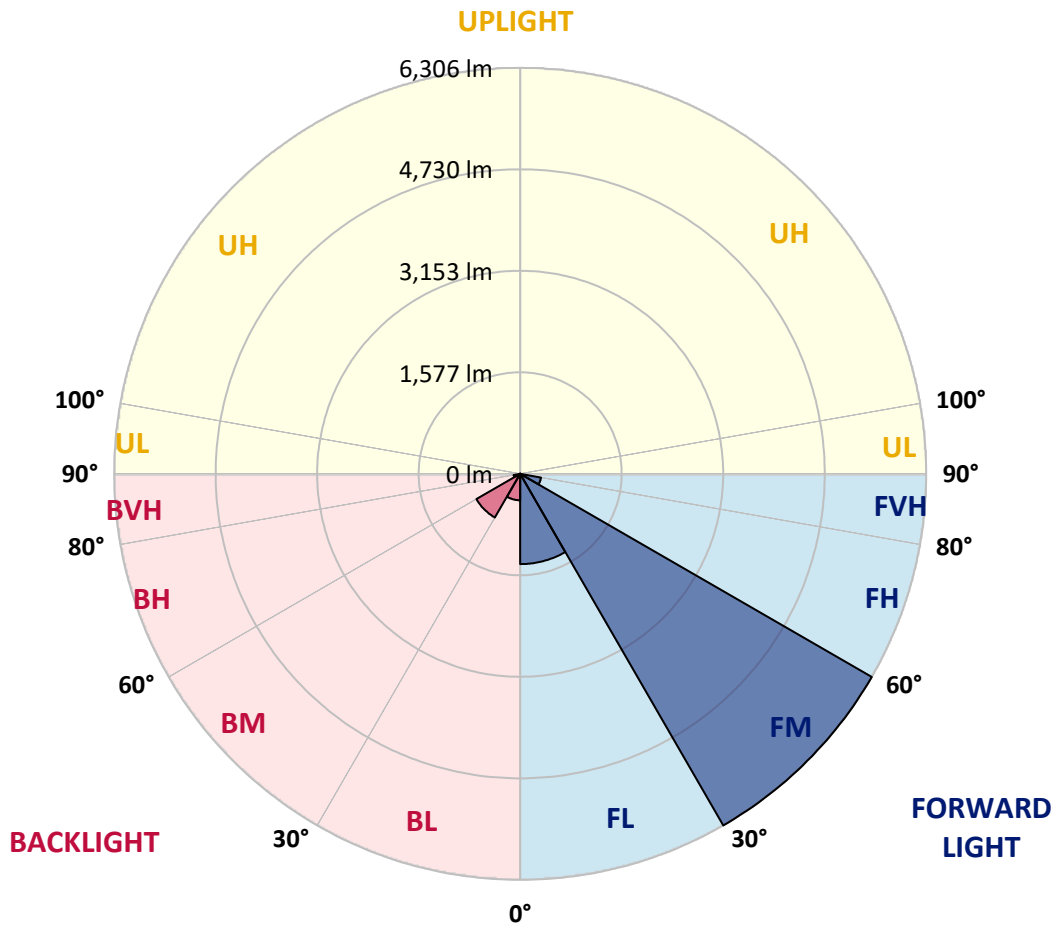
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1402.6	15.0			
FM (30°-60°)	6306.4	67.4			
FH (60°-80°)	328.9	3.5			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	410.9	4.4	B1/500		
BM (30°-60°)	784.5	8.4	B1/1000		
BH (60°-80°)	103.1	1.1	B0/110		G0/110
BVH (80°-90°)	7.3	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°	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5
2.5°	1268.2	1259.0	1239.0	1202.1	1186.8	1149.9	1128.4	1086.8	1060.7	1031.5	999.2
5°	1786.3	1738.6	1709.4	1667.9	1546.5	1471.2	1346.6	1240.6	1191.4	1137.6	1063.8
7.5°	2321.3	2290.5	2250.6	2161.4	2078.4	1921.6	1707.9	1474.2	1374.3	1282.1	1136.0
10°	2764.0	2677.9	2673.3	2607.2	2516.5	2329.0	2072.2	1781.7	1603.4	1468.1	1239.0
12.5°	3073.0	2994.6	3029.9	3022.3	2937.7	2765.5	2468.8	2084.5	1898.5	1687.9	1345.1
15°	3354.3	3322.0	3311.3	3302.0	3268.2	3140.6	2874.7	2453.5	2184.5	1930.8	1465.0
17.5°	3629.5	3546.5	3586.4	3594.1	3591.0	3475.8	3226.7	2804.0	2487.3	2187.5	1591.1
20°	3873.9	3881.6	3827.8	3817.0	3807.8	3803.2	3560.3	3151.4	2859.3	2456.5	1755.6
22.5°	4187.5	4133.7	4181.4	4150.6	4090.7	4053.8	3867.8	3458.8	3182.1	2780.9	1923.1
25°	4558.0	4601.0	4488.8	4476.5	4410.4	4282.8	4115.3	3803.2	3492.7	3082.2	2104.5
27.5°	5014.6	4939.2	4910.0	4842.4	4722.5	4668.7	4471.9	4158.3	3867.8	3398.9	2279.8
30°	5406.6	5386.6	5240.5	5160.6	5056.1	5054.5	4779.4	4639.5	4356.6	3895.4	2521.1
32.5°	5726.3	5638.7	5584.9	5529.5	5445.0	5468.0	5235.9	5162.1	4877.7	4356.6	2805.5
35°	5940.0	5877.0	5844.7	5760.1	5735.5	5838.5	5741.7	5710.9	5477.3	5005.3	3139.1
37.5°	6007.6	6027.6	6021.5	5915.4	5967.7	6245.9	6370.4	6290.5	6167.5	5689.4	3500.3
40°	6067.6	6081.4	6050.7	6175.2	6324.3	6641.0	7091.4	6959.2	6913.1	6382.7	4003.0
42.5°	6101.4	6090.6	6090.6	6305.9	6531.8	7168.3	7787.8	7700.2	7664.8	7120.6	4584.1
45°	5955.4	5850.8	5963.0	6255.1	6710.2	7428.1	8344.3	8465.7	8415.0	7998.4	5263.6
47.5°	5409.6	5474.2	5537.2	5927.7	6493.4	7348.1	8685.5	9099.1	9192.8	8736.3	5709.4
50°	4584.1	4570.3	4701.0	5192.9	5880.0	7003.8	8619.4	9282.0	9452.6	8957.6	5803.2
52.5°	3334.3	3435.8	3577.2	4066.1	4880.8	6112.2	7766.3	8810.1	9037.6	8685.5	5741.7
55°	1941.6	1829.3	2147.6	2561.1	3329.7	4610.3	6565.7	7809.3	8230.5	8190.5	5431.2
57.5°	777.9	753.3	862.4	1162.2	1737.1	2857.8	4774.7	6416.5	7091.4	7501.8	4773.2
60°	341.3	333.6	392.0	473.5	710.2	1317.4	2611.8	3990.7	4694.8	5242.1	3285.1
62.5°	246.0	242.9	272.1	301.3	375.1	573.4	1097.6	1608.0	2004.6	2421.2	1471.2
65°	198.3	206.0	226.0	241.4	276.7	318.2	387.4	447.3	548.8	568.8	324.4
67.5°	161.4	167.6	186.0	202.9	209.1	172.2	178.3	156.8	156.8	139.9	112.2
70°	118.4	119.9	141.4	161.4	129.1	69.2	121.4	121.4	109.1	104.5	95.3
72.5°	87.6	89.2	106.1	99.9	50.7	43.0	89.2	98.4	89.2	84.5	76.9
75°	64.6	66.1	55.3	23.1	21.5	27.7	52.3	67.6	64.6	63.0	58.4
77.5°	12.3	9.2	7.7	10.8	15.4	23.1	33.8	41.5	43.0	46.1	43.0
80°	1.5	1.5	4.6	9.2	16.9	24.6	35.4	40.0	41.5	43.0	40.0
82.5°	0.0	1.5	4.6	9.2	16.9	23.1	30.7	35.4	38.4	40.0	38.4
85°	0.0	1.5	3.1	7.7	13.8	16.9	15.4	10.8	9.2	10.8	7.7
87.5°	0.0	0.0	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5	968.5
2.5°	980.8	974.6	953.1	930.0	910.1	919.3	910.1	902.4	905.4	902.4	899.3
5°	1034.6	1006.9	960.8	940.8	923.9	922.4	917.7	916.2	917.7	917.7	903.9
7.5°	1085.3	1040.7	991.5	970.0	950.0	951.6	940.8	940.8	939.3	931.6	928.5
10°	1162.2	1102.2	1039.2	1000.8	976.2	971.6	960.8	950.0	950.0	950.0	934.7
12.5°	1246.7	1171.4	1085.3	1040.7	1011.5	988.5	971.6	968.5	951.6	948.5	940.8
15°	1320.5	1225.2	1116.1	1054.6	1017.7	986.9	960.8	943.9	936.2	931.6	925.4
17.5°	1392.8	1271.3	1133.0	1054.6	1014.6	979.2	951.6	936.2	917.7	920.8	908.5
20°	1489.6	1320.5	1137.6	1034.6	985.4	951.6	914.7	907.0	896.2	887.0	890.1
22.5°	1583.4	1355.9	1123.7	1010.0	939.3	899.3	880.9	871.6	867.0	859.3	848.6
25°	1667.9	1394.3	1102.2	965.4	890.1	860.9	844.0	842.4	831.7	831.7	811.7
27.5°	1754.0	1408.1	1065.3	913.1	847.0	830.1	822.4	819.4	814.7	804.0	790.2
30°	1852.4	1412.7	1011.5	859.3	808.6	790.2	800.9	808.6	788.6	768.6	774.8
32.5°	1933.9	1402.0	947.0	808.6	780.9	771.7	793.2	800.9	777.9	756.3	745.6
35°	2032.3	1375.9	883.9	768.6	753.3	771.7	790.2	790.2	744.0	717.9	711.8
37.5°	2181.4	1346.6	825.5	734.8	724.1	762.5	787.1	770.2	697.9	665.6	657.9
40°	2341.3	1328.2	768.6	701.0	708.7	747.1	760.9	708.7	634.9	614.9	608.8
42.5°	2573.4	1291.3	717.9	671.8	694.8	725.6	725.6	631.8	604.1	593.4	591.8
45°	2862.4	1265.2	673.3	647.2	674.9	682.5	657.9	591.8	571.9	568.8	570.3
47.5°	3003.8	1214.4	627.2	618.0	638.0	639.5	574.9	559.6	542.7	538.0	535.0
50°	2982.3	1123.7	567.3	579.5	607.2	591.8	524.2	527.3	511.9	510.4	502.7
52.5°	2831.6	980.8	507.3	536.5	567.3	522.7	482.7	479.6	479.6	459.6	452.0
55°	2510.4	790.2	435.0	471.9	508.8	439.7	428.9	425.8	418.1	399.7	395.1
57.5°	1987.7	579.5	327.4	367.4	432.0	373.6	372.0	358.2	338.2	324.4	324.4
60°	1182.2	333.6	206.0	224.4	285.9	302.8	336.7	330.5	296.7	275.2	269.0
62.5°	539.6	172.2	130.7	133.7	153.7	196.8	264.4	305.9	258.3	221.4	218.3
65°	181.4	127.6	107.6	103.0	106.1	118.4	158.3	216.8	206.0	170.6	164.5
67.5°	110.7	113.8	101.5	93.8	93.8	92.2	90.7	98.4	121.4	118.4	119.9
70°	95.3	104.5	93.8	84.5	81.5	76.9	64.6	53.8	46.1	53.8	56.9
72.5°	76.9	83.0	79.9	72.3	64.6	58.4	46.1	35.4	26.1	23.1	23.1
75°	56.9	61.5	64.6	55.3	49.2	41.5	33.8	23.1	13.8	9.2	9.2
77.5°	41.5	46.1	47.7	43.0	36.9	29.2	21.5	15.4	7.7	3.1	3.1
80°	35.4	41.5	46.1	43.0	38.4	27.7	20.0	10.8	6.1	1.5	1.5
82.5°	33.8	41.5	46.1	41.5	36.9	26.1	20.0	12.3	4.6	1.5	1.5
85°	7.7	10.8	13.8	16.9	20.0	20.0	15.4	9.2	4.6	1.5	1.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	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)