

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: P452549

Luminaire Tested: **GALN-SA3C-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15722 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

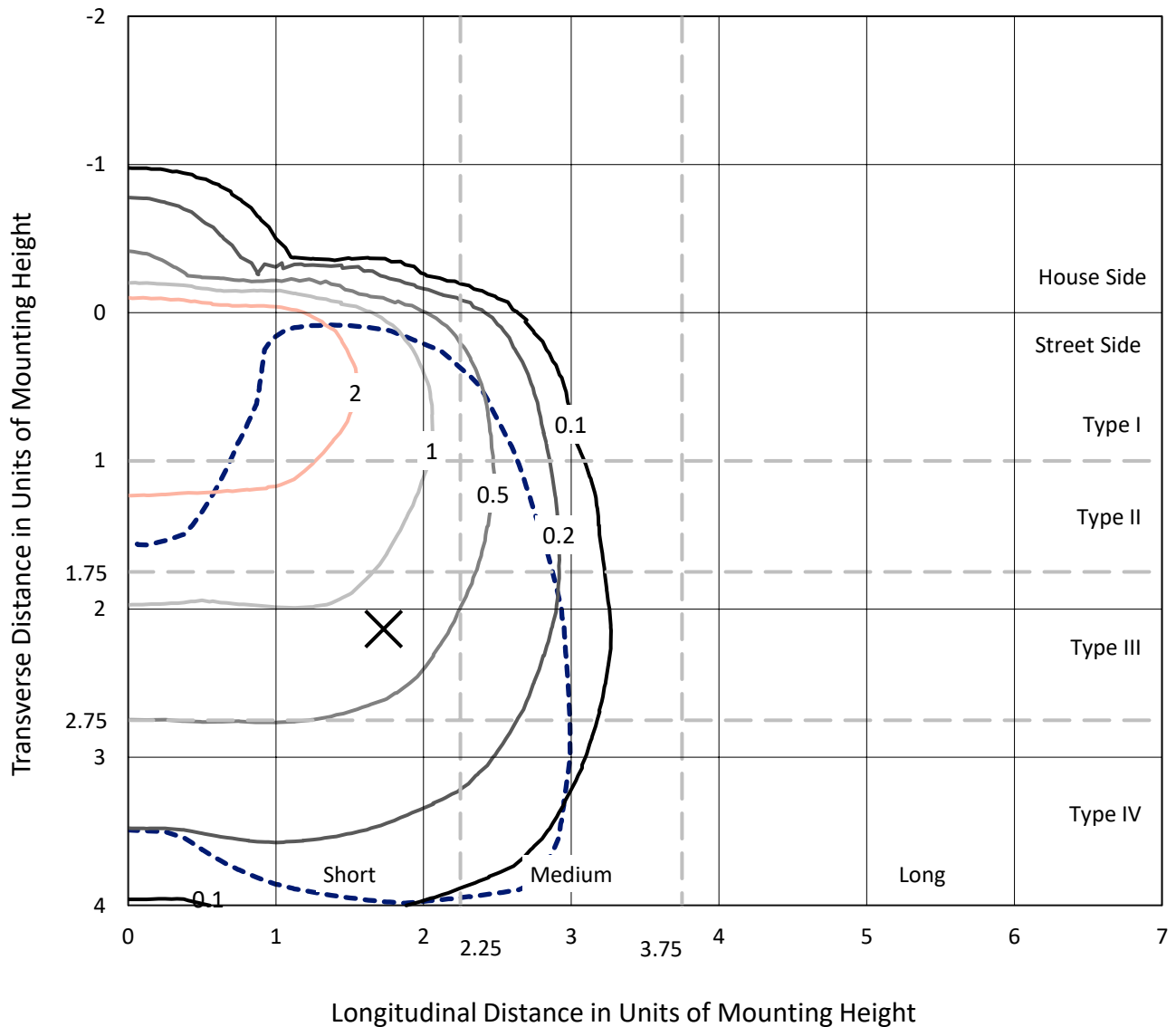
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

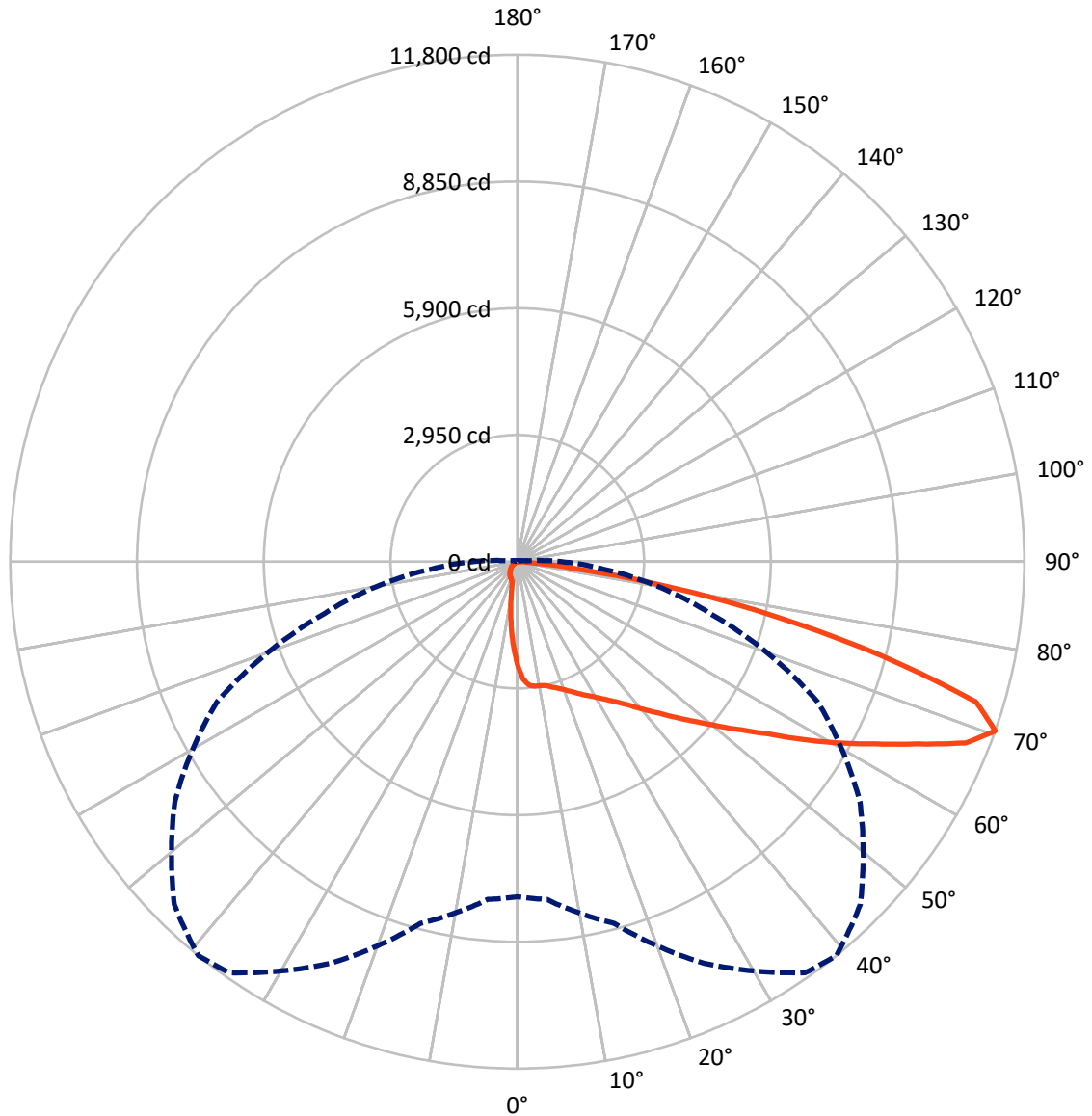
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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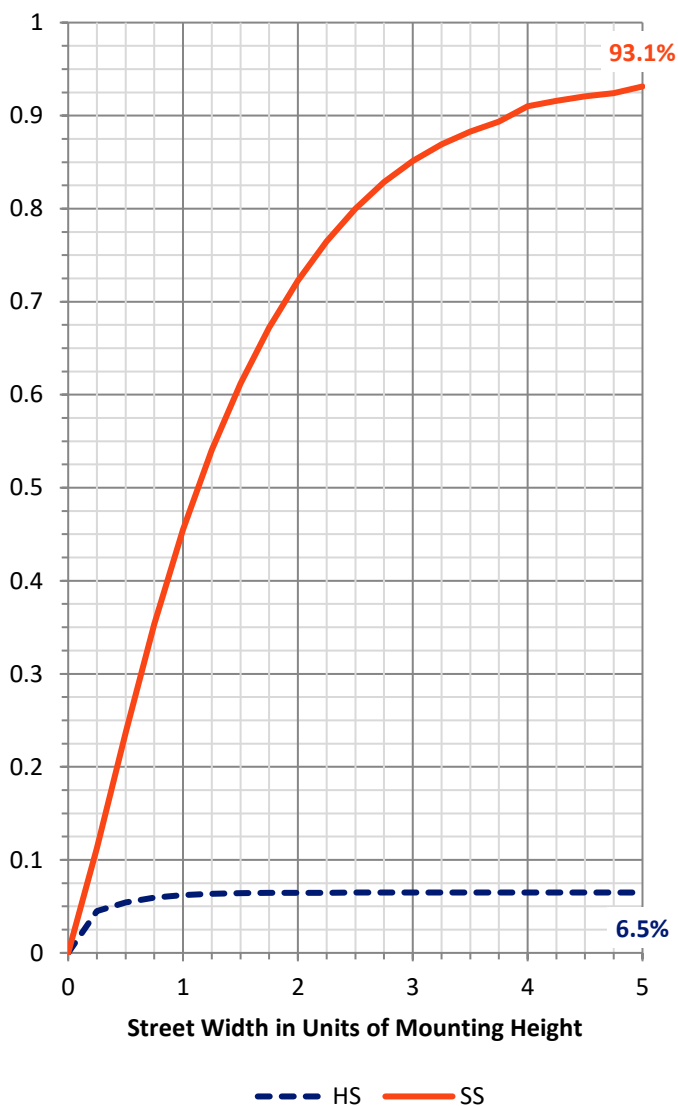
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1025.2	0.0	1025.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	14696.8	0.0	14696.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	15722.0	0.0	15722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	1.3
10°-20°	543.7	3.5
20°-30°	910.9	5.8
30°-40°	1412.7	9.0
40°-50°	2238.8	14.2
50°-60°	3281.7	20.9
60°-70°	4206.4	26.8
70°-80°	2643.1	16.8
80°-90°	275.4	1.8
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°	15722.0	100.0
0°-180°	15722.0	100.0

Coefficient of Utilization



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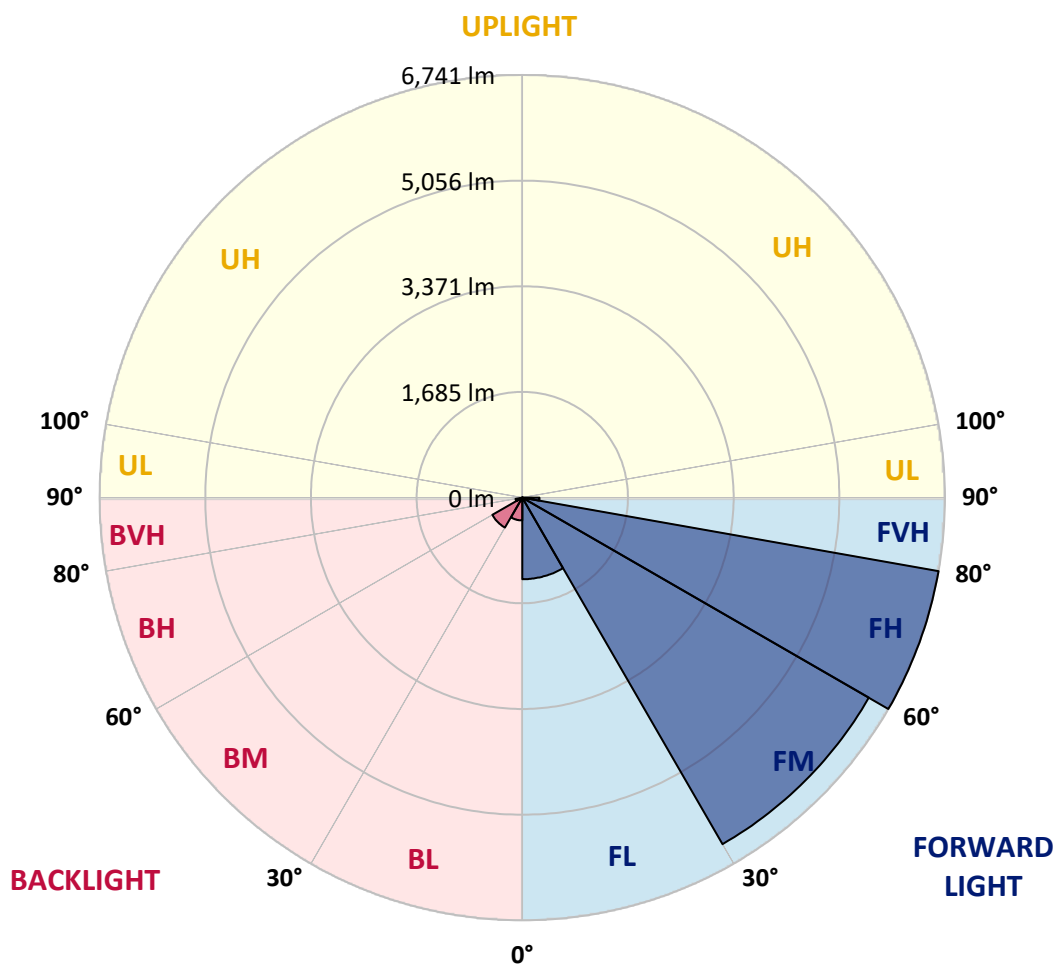
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.9	8.3			
FM (30°-60°)	6381.5	40.6			
FH (60°-80°)	6741.1	42.9			G3/7500
FVH (80°-90°)	273.3	1.7			G3/500
BL (0°-30°)	363.0	2.3	B1/500		
BM (30°-60°)	551.7	3.5	B1/1000		
BH (60°-80°)	108.4	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2834.6	2825.1	2812.4	2797.6	2755.3	2747.9	2722.6	2668.7	2604.2	2551.4	2478.5
5°	2968.7	2974.0	2964.5	2938.1	2907.5	2889.5	2857.8	2774.3	2690.9	2584.2	2464.8
7.5°	2999.4	3009.9	2998.3	2973.0	2943.4	2924.4	2899.0	2827.2	2730.0	2608.5	2444.7
10°	2996.2	3008.9	3001.5	2978.2	2953.9	2936.0	2908.5	2851.5	2773.3	2645.5	2451.1
12.5°	2990.9	3007.8	3006.8	2995.2	2975.1	2961.3	2944.4	2893.7	2820.8	2699.3	2485.9
15°	2976.1	2997.3	3016.3	3025.8	3026.8	3026.8	3005.7	2951.8	2882.1	2770.1	2531.4
17.5°	2982.5	3006.8	3054.3	3081.8	3100.8	3098.7	3076.5	3018.4	2941.3	2843.0	2578.9
20°	3021.6	3054.3	3120.9	3175.8	3194.8	3188.5	3158.9	3091.3	3003.6	2905.3	2625.4
22.5°	3117.7	3147.3	3230.7	3295.2	3308.9	3292.0	3249.8	3157.9	3078.6	2973.0	2681.4
25°	3261.4	3296.3	3373.4	3422.0	3422.0	3412.5	3353.3	3245.5	3163.1	3067.0	2754.3
27.5°	3435.7	3465.3	3541.4	3584.7	3559.3	3531.8	3472.7	3342.7	3263.5	3185.3	2842.0
30°	3612.1	3631.2	3711.5	3730.5	3704.1	3669.2	3605.8	3475.9	3406.1	3345.9	2968.7
32.5°	3779.1	3820.3	3886.8	3882.6	3846.7	3829.8	3771.7	3633.3	3594.2	3587.8	3146.2
35°	3946.0	3977.7	4036.9	4051.6	4019.9	4016.8	3974.5	3872.0	3873.1	3914.3	3423.0
37.5°	4089.7	4118.2	4187.9	4220.7	4227.0	4242.9	4226.0	4158.3	4254.5	4367.5	3789.6
40°	4210.1	4250.3	4339.0	4396.1	4461.6	4519.7	4522.8	4537.6	4731.0	4925.4	4268.2
42.5°	4304.1	4360.1	4489.0	4594.7	4744.7	4818.7	4877.8	4959.2	5284.6	5575.1	4832.4
45°	4426.7	4491.1	4651.7	4817.6	5052.1	5173.6	5256.0	5473.7	5935.4	6331.5	5411.3
47.5°	4629.5	4663.3	4827.1	5069.0	5377.5	5550.8	5711.4	6041.0	6633.7	6988.7	5893.1
50°	4890.5	4912.7	5036.3	5372.3	5771.6	5999.8	6292.5	6680.2	7358.5	7533.8	6165.7
52.5°	5178.9	5186.3	5279.3	5706.1	6213.2	6500.6	6828.1	7306.7	7949.0	7922.6	6346.3
55°	5513.8	5503.3	5582.5	6068.5	6736.2	7064.8	7446.1	7948.0	8461.4	8198.4	6449.9
57.5°	5897.3	5868.8	5945.9	6549.2	7406.0	7799.0	8186.7	8501.6	8858.7	8429.7	6499.5
60°	6298.8	6241.7	6333.7	7089.1	8195.2	8568.1	8890.4	8974.9	9277.0	8613.6	6414.0
62.5°	6618.9	6620.0	6791.1	7663.8	9006.6	9333.0	9504.2	9580.3	9637.3	8573.4	5963.9
65°	7118.6	7135.5	7409.2	8461.4	9945.8	10228.9	10346.2	10099.0	9653.2	8074.8	5287.7
67.5°	7634.2	7688.1	8188.9	9560.2	11030.8	11259.0	11107.9	10199.4	9222.1	6936.9	4009.4
70°	7802.2	7890.9	8716.0	10316.6	11681.6	11799.9	11288.6	9731.3	7709.2	4638.0	2017.9
72.5°	7149.3	7293.0	8412.8	10040.9	11266.4	11163.9	10100.1	8161.4	4901.1	1761.2	615.9
75°	5041.6	5105.0	6991.9	8329.4	9061.5	8771.0	7682.8	5261.3	2015.8	494.4	211.3
77.5°	2603.2	2572.6	4158.3	5526.5	6462.6	6161.5	5031.0	2723.6	763.8	206.0	131.0
80°	1346.0	1368.2	1799.2	2895.8	3944.9	3630.1	2682.4	1262.5	406.7	114.1	100.4
82.5°	754.3	707.8	1034.3	1264.6	1844.6	1446.3	1029.0	893.8	177.5	68.7	95.1
85°	137.3	143.7	567.3	683.5	640.2	406.7	331.7	596.9	51.8	38.0	66.6
87.5°	2.1	2.1	109.9	196.5	124.7	57.1	104.6	85.6	10.6	14.8	11.6
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°	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2	2453.2
2.5°	2441.5	2401.4	2326.4	2252.4	2158.4	2081.3	2029.5	1975.6	1920.7	1924.9	1937.6
5°	2399.3	2329.6	2181.7	2025.3	1875.3	1740.0	1606.9	1487.5	1438.9	1394.6	1396.7
7.5°	2357.0	2258.8	2042.2	1797.1	1569.9	1339.6	1172.7	1035.4	962.5	907.5	891.7
10°	2338.0	2208.1	1914.4	1577.3	1255.1	1003.7	789.2	677.2	590.6	563.1	570.5
12.5°	2346.5	2182.7	1799.2	1378.7	995.2	699.4	549.4	492.3	473.3	470.1	468.0
15°	2362.3	2164.7	1686.2	1159.0	731.1	519.8	461.7	451.1	449.0	446.9	448.0
17.5°	2383.4	2148.9	1565.7	953.0	561.0	454.3	437.4	432.1	431.0	431.0	431.0
20°	2404.6	2130.9	1431.5	769.1	468.0	428.9	418.4	415.2	414.1	414.1	413.1
22.5°	2428.9	2115.1	1295.3	604.3	431.0	411.0	401.5	399.4	398.3	397.2	397.2
25°	2463.7	2095.0	1150.5	494.4	407.8	394.1	384.6	382.4	381.4	377.2	378.2
27.5°	2510.2	2080.2	1001.6	426.8	386.7	372.9	366.6	363.4	361.3	358.2	359.2
30°	2573.6	2067.6	843.1	389.8	362.4	350.8	344.4	342.3	340.2	337.0	337.0
32.5°	2683.5	2072.8	676.2	360.3	340.2	326.5	320.1	318.0	315.9	312.7	312.7
35°	2848.3	2103.5	540.9	334.9	313.8	300.0	293.7	293.7	290.5	286.3	285.3
37.5°	3117.7	2181.7	434.2	310.6	288.4	275.7	268.3	266.2	263.1	256.7	255.7
40°	3435.7	2303.1	365.5	286.3	265.2	252.5	246.2	239.8	231.4	225.0	224.0
42.5°	3835.1	2427.8	316.9	262.0	243.0	231.4	224.0	213.4	200.7	192.3	191.2
45°	4251.3	2541.9	284.2	239.8	221.9	212.4	203.9	187.0	171.2	160.6	159.5
47.5°	4561.9	2563.0	257.8	218.7	203.9	194.4	182.8	161.6	140.5	131.0	127.8
50°	4708.8	2460.6	230.3	197.6	185.9	175.4	160.6	136.3	113.0	101.4	99.3
52.5°	4760.5	2283.1	208.1	178.5	168.0	155.3	137.3	109.9	88.7	77.1	76.1
55°	4739.4	2059.1	188.1	160.6	146.9	132.1	114.1	87.7	65.5	56.0	53.9
57.5°	4628.5	1773.8	168.0	142.6	125.7	110.9	90.9	65.5	44.4	35.9	34.9
60°	4329.5	1385.1	147.9	122.6	106.7	90.9	71.8	46.5	27.5	20.1	20.1
62.5°	3824.5	1028.0	128.9	102.5	89.8	72.9	50.7	29.6	14.8	10.6	9.5
65°	3195.9	758.6	107.8	86.6	75.0	57.1	35.9	18.0	7.4	3.2	2.1
67.5°	2230.3	468.0	89.8	70.8	61.3	41.2	22.2	7.4	3.2	0.0	0.0
70°	1013.2	222.9	68.7	53.9	46.5	29.6	11.6	4.2	2.1	0.0	0.0
72.5°	314.8	117.3	48.6	39.1	31.7	19.0	6.3	3.2	2.1	0.0	0.0
75°	145.8	75.0	30.6	21.1	18.0	9.5	4.2	2.1	1.1	0.0	0.0
77.5°	108.8	58.1	18.0	11.6	9.5	6.3	3.2	2.1	1.1	0.0	0.0
80°	95.1	29.6	10.6	7.4	5.3	4.2	2.1	1.1	0.0	0.0	0.0
82.5°	85.6	14.8	6.3	4.2	3.2	2.1	1.1	1.1	0.0	0.0	0.0
85°	46.5	8.5	4.2	3.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	8.5	4.2	3.2	2.1	2.1	1.1	1.1	1.1	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)