

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: P453954

Luminaire Tested: **GALN-SA5A-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16330 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

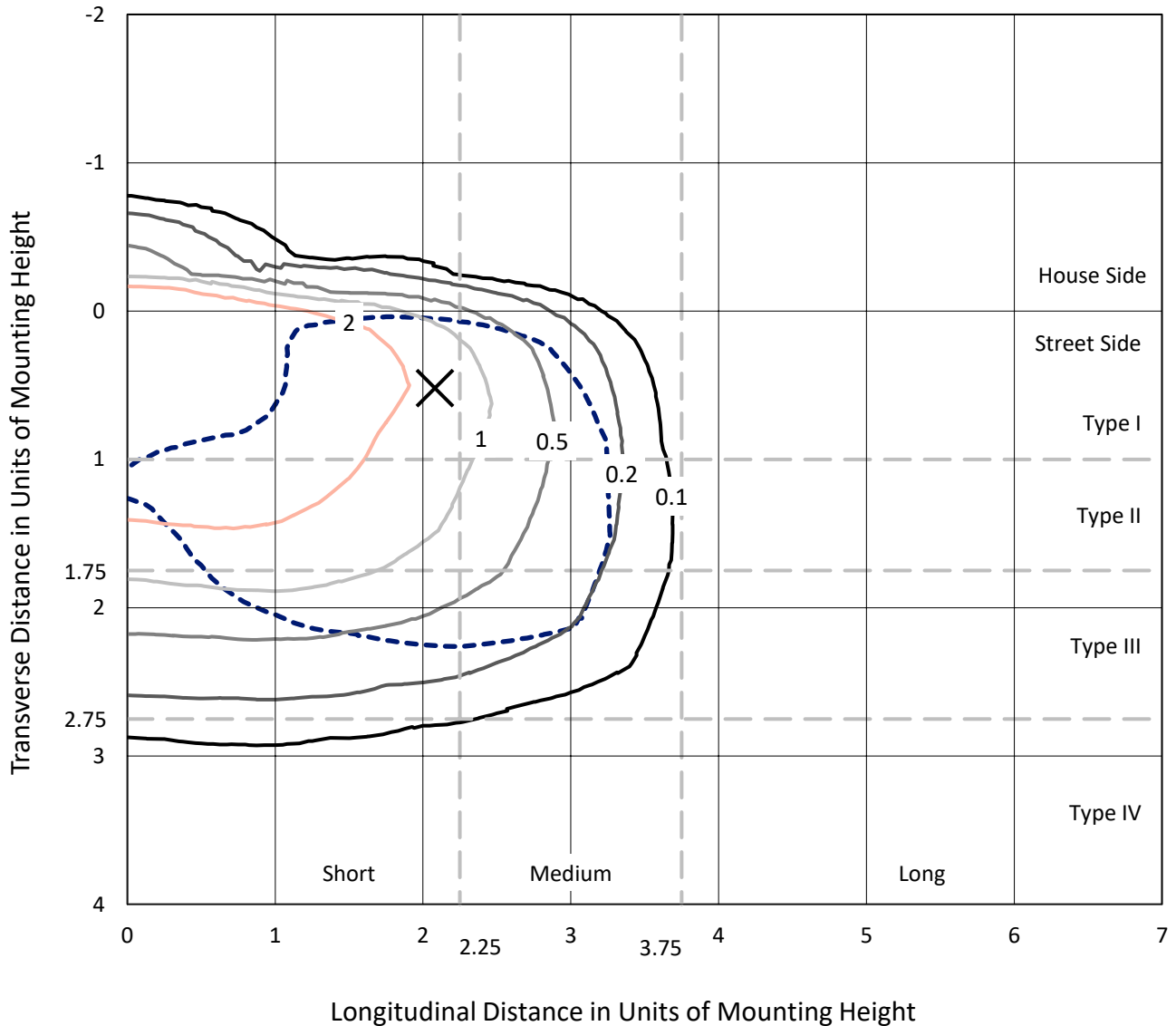
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453954
 CATALOG NUMBER: GALN-SA5A-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

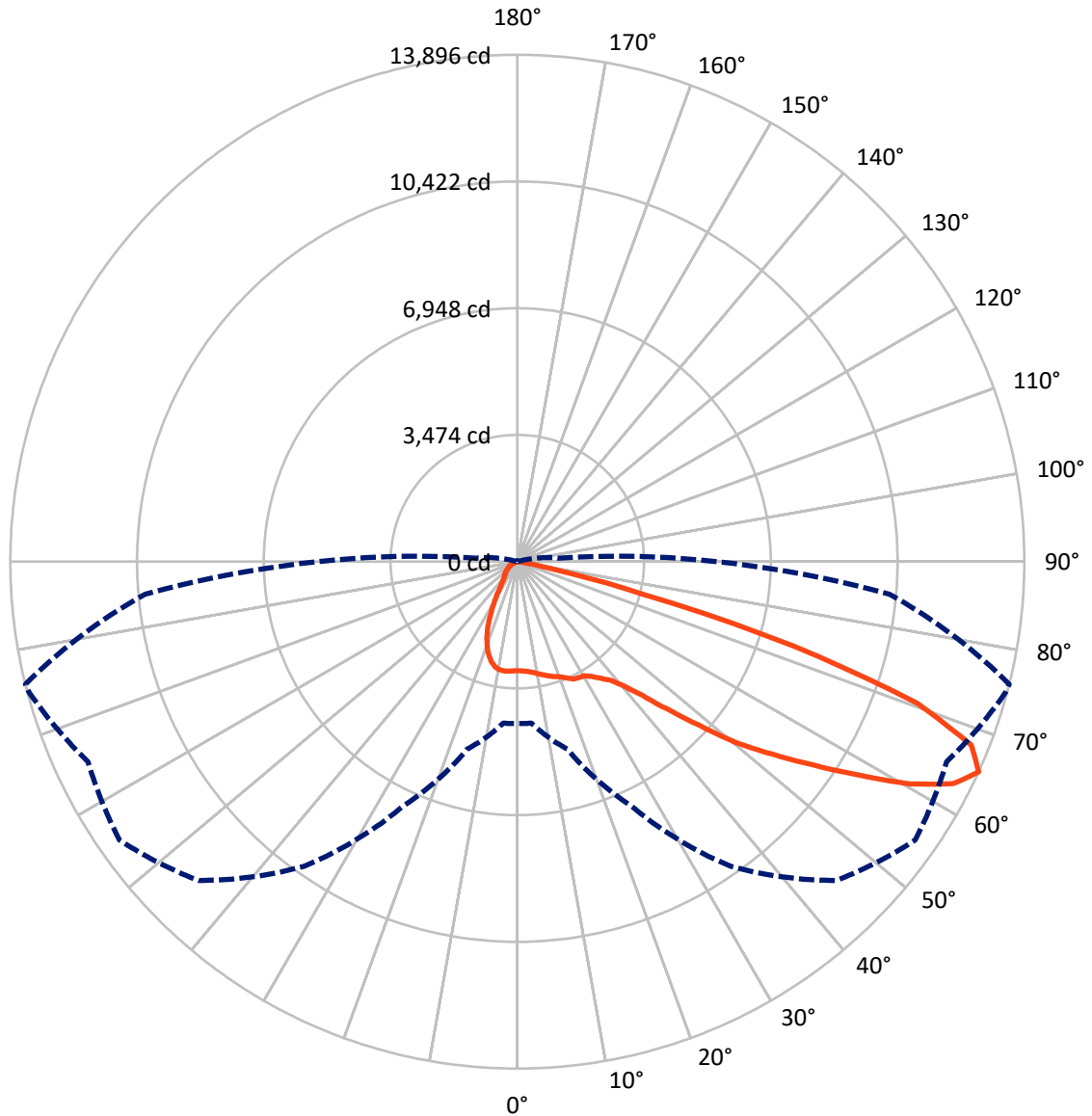
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

REPORT NUMBER: P453954
CATALOG NUMBER: GALN-SA5A-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P453954

CATALOG NUMBER: GALN-SA5A-730-U-T3R-HSS

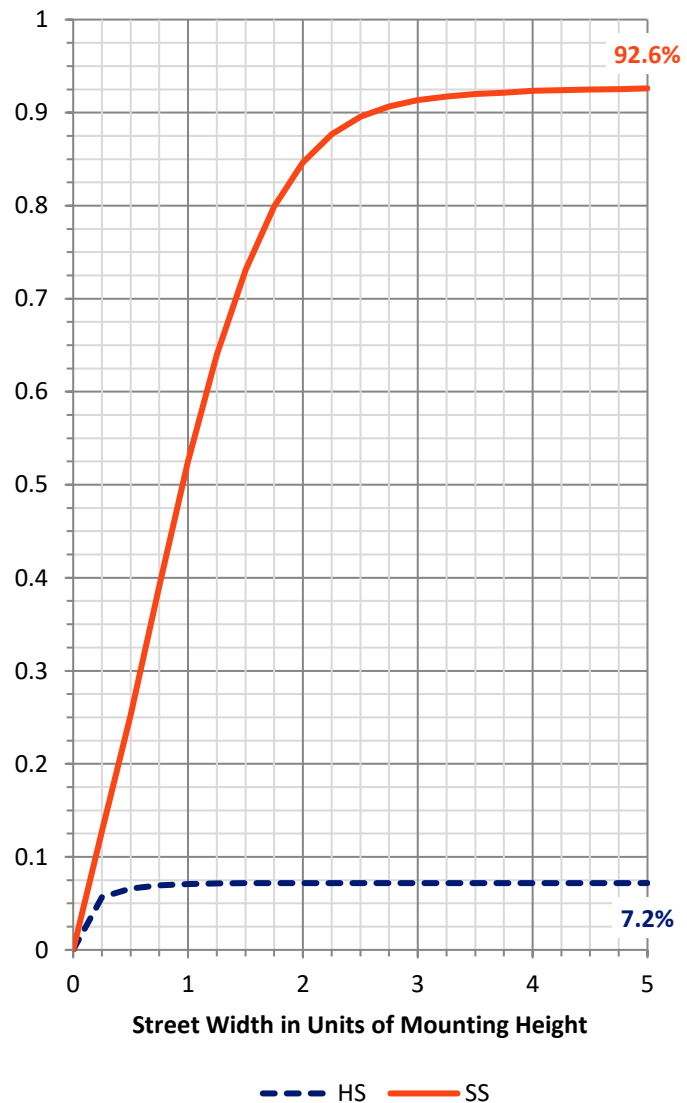
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1179.4	0.0	1179.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15150.7	0.0	15150.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	16330.0	0.0	16330.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	1.5
10°-20°	547.9	3.4
20°-30°	882.9	5.4
30°-40°	1535.2	9.4
40°-50°	2536.8	15.5
50°-60°	3918.8	24.0
60°-70°	4785.5	29.3
70°-80°	1816.2	11.1
80°-90°	60.6	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°	16330.0	100.0
0°-180°	16330.0	100.0



REPORT NUMBER: P453954

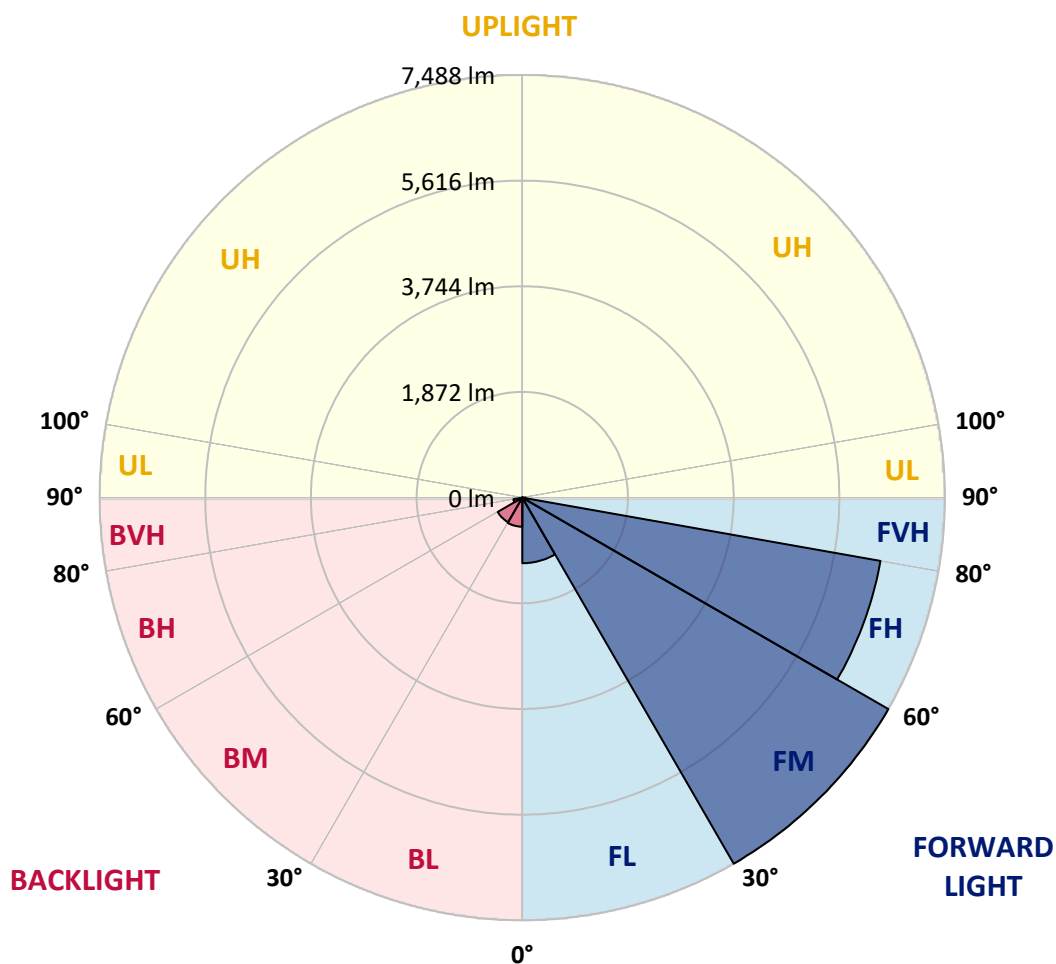
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.7	7.1			
FM (30°-60°)	7487.6	45.9			
FH (60°-80°)	6441.6	39.4			G3/7500
FVH (80°-90°)	59.8	0.4			G1/100
BL (0°-30°)	515.2	3.2	B2/1000		
BM (30°-60°)	503.3	3.1	B1/1000		
BH (60°-80°)	160.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P453954

CATALOG NUMBER: GALN-SA5A-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3
2.5°	2854.7	2855.8	2862.8	2880.1	2906.6	2928.5	2946.9	2976.9	2997.7	3000.0	3006.9
5°	2657.5	2643.7	2657.5	2702.5	2742.9	2804.0	2878.9	2953.8	3020.7	3025.3	3057.6
7.5°	2436.2	2447.7	2469.6	2515.7	2591.8	2685.2	2793.6	2927.3	3054.1	3065.7	3129.1
10°	2211.3	2236.7	2272.5	2342.8	2448.9	2569.9	2717.5	2908.9	3107.2	3123.3	3232.9
12.5°	2003.8	2015.3	2059.2	2153.7	2285.1	2455.8	2659.8	2898.5	3166.0	3185.6	3343.5
15°	1844.7	1859.7	1897.7	1983.1	2129.5	2348.5	2612.6	2895.0	3223.6	3251.3	3454.2
17.5°	1814.7	1824.0	1840.1	1897.7	2025.7	2263.2	2569.9	2893.9	3279.0	3312.4	3556.8
20°	1938.1	1930.0	1913.9	1908.1	1978.5	2197.5	2538.8	2903.1	3332.0	3370.1	3665.2
22.5°	2247.1	2257.5	2162.9	2051.1	2028.0	2187.1	2534.2	2946.9	3416.2	3461.1	3786.3
25°	2903.1	2823.6	2676.0	2408.5	2206.7	2250.5	2586.1	3050.7	3514.2	3563.8	3895.8
27.5°	3628.3	3604.1	3374.7	2934.2	2558.4	2384.3	2678.3	3130.2	3546.5	3597.2	3958.1
30°	4340.8	4369.7	4106.8	3620.2	3069.1	2632.2	2764.8	3160.2	3575.3	3628.3	4037.6
32.5°	5001.5	5036.1	4805.5	4323.5	3671.0	3061.1	2913.5	3276.7	3696.3	3750.5	4170.2
35°	5521.4	5526.1	5352.0	4968.0	4328.2	3582.2	3235.2	3480.7	3860.1	3923.5	4310.9
37.5°	5998.8	5991.9	5787.8	5456.9	4875.8	4099.9	3639.8	3715.9	4046.8	4112.6	4513.8
40°	6352.7	6357.3	6291.6	5980.3	5386.6	4578.3	3960.4	3936.2	4360.4	4463.0	4808.9
42.5°	6589.1	6631.7	6664.0	6506.1	6028.7	5167.5	4452.7	4407.7	4904.6	4989.9	5226.3
45°	6780.5	6856.6	7018.0	7009.9	6645.6	5890.4	5128.3	5036.1	5675.9	5767.0	5757.8
47.5°	6920.0	6997.2	7264.7	7426.1	7225.5	6591.4	5978.0	5898.5	6597.1	6696.3	6344.7
50°	6991.5	7083.7	7425.0	7737.4	7678.6	7267.0	6946.5	6951.1	7709.7	7805.4	7024.9
52.5°	6824.3	6944.2	7510.3	8072.9	8187.1	7913.8	7853.9	8006.0	8700.1	8782.0	7639.4
55°	6290.5	6441.5	7393.8	8358.8	8776.2	8677.1	8884.6	9116.3	9782.7	9835.8	8270.1
57.5°	5952.7	6112.9	7050.3	8602.1	9484.1	9636.3	9964.9	10134.4	10899.9	11034.8	8994.1
60°	5667.9	5793.5	6767.8	8654.0	10203.6	10810.0	11129.4	11304.6	12278.9	12366.5	9790.8
62.5°	5194.0	5338.1	6290.5	8292.0	10565.6	11749.7	12411.4	12333.0	13345.3	13406.4	10279.6
65°	4431.9	4444.6	5322.0	7382.3	10192.0	12359.6	13311.9	12983.3	13854.9	13896.4	10241.6
67.5°	3307.8	3430.0	4094.1	5802.8	8609.0	11838.4	13603.6	13000.6	13533.3	13418.0	9428.8
70°	2130.6	2224.0	2775.1	4023.8	6207.5	9879.6	12636.3	12109.4	11877.6	11621.7	7717.8
72.5°	983.5	1103.4	1648.7	2299.0	3681.4	7037.6	10257.7	9838.1	8549.1	7917.3	4905.8
75°	428.9	458.9	814.0	1212.9	1726.0	3721.7	6763.2	6107.1	3861.2	3526.9	1963.5
77.5°	261.7	281.3	426.6	650.3	677.9	1418.1	3643.3	2664.5	1193.3	1052.6	532.7
80°	177.6	199.5	310.1	340.1	231.7	395.5	1367.4	711.4	241.0	230.6	114.1
82.5°	86.5	109.5	229.4	190.2	100.3	126.8	397.8	152.2	70.3	65.7	40.4
85°	12.7	21.9	129.1	124.5	45.0	30.0	70.3	38.0	24.2	23.1	18.4
87.5°	0.0	0.0	43.8	19.6	4.6	4.6	8.1	8.1	9.2	8.1	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453954
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3	2987.3
2.5°	3010.3	3016.1	2994.2	2963.1	2929.6	2896.2	2848.9	2806.3	2780.9	2795.9	2759.0
5°	3064.5	3059.9	3002.3	2907.7	2782.1	2631.0	2481.1	2353.2	2311.7	2249.4	2242.5
7.5°	3139.5	3126.8	3004.6	2787.8	2504.2	2220.6	1943.9	1760.5	1655.6	1566.9	1569.2
10°	3244.4	3207.5	2978.1	2576.8	2109.9	1682.1	1329.3	1087.2	982.3	948.9	922.4
12.5°	3352.8	3281.3	2904.3	2292.1	1642.9	1149.5	808.2	660.6	596.1	575.3	573.0
15°	3449.6	3336.6	2775.1	1949.6	1194.5	734.4	551.1	502.7	494.6	495.8	494.6
17.5°	3545.3	3380.4	2596.4	1586.5	811.7	526.9	473.9	462.3	465.8	470.4	469.2
20°	3624.9	3389.7	2368.1	1210.6	574.2	462.3	445.0	442.7	446.2	449.6	449.6
22.5°	3711.3	3396.6	2097.2	838.2	469.2	430.0	420.8	420.8	425.4	430.0	431.2
25°	3775.9	3358.5	1773.2	601.8	413.9	398.9	394.3	395.5	400.1	402.4	401.2
27.5°	3786.3	3251.3	1429.7	461.2	375.9	360.9	356.3	360.9	355.1	358.6	356.3
30°	3795.5	3115.3	1081.5	388.5	341.3	318.2	311.3	304.4	299.8	294.0	292.8
32.5°	3824.3	2955.0	789.8	349.3	309.0	283.6	267.5	247.9	232.9	228.3	227.1
35°	3837.0	2762.5	579.9	318.2	280.2	252.5	223.7	196.0	174.1	166.0	171.8
37.5°	3885.4	2575.7	449.6	295.2	254.8	220.2	183.3	148.7	128.0	123.4	125.7
40°	3984.6	2372.8	377.0	275.6	232.9	190.2	145.3	111.8	98.0	93.4	92.2
42.5°	4143.7	2171.0	335.5	257.1	211.0	160.3	114.1	87.6	76.1	72.6	72.6
45°	4337.4	1977.3	306.7	237.5	187.9	129.1	89.9	70.3	63.4	61.1	61.1
47.5°	4592.2	1807.8	282.5	217.9	162.6	102.6	72.6	61.1	56.5	57.6	58.8
50°	4850.4	1682.1	256.0	196.0	133.7	84.2	62.3	54.2	53.0	54.2	54.2
52.5°	5045.3	1608.4	220.2	166.0	104.9	70.3	55.3	50.7	49.6	47.3	47.3
55°	5308.2	1592.2	175.2	134.9	83.0	58.8	49.6	46.1	42.7	40.4	39.2
57.5°	5646.0	1610.7	134.9	104.9	64.6	48.4	43.8	38.0	33.4	28.8	28.8
60°	5855.8	1569.2	104.9	80.7	47.3	39.2	33.4	27.7	21.9	18.4	17.3
62.5°	5788.9	1393.9	83.0	60.0	33.4	28.8	21.9	18.4	12.7	9.2	8.1
65°	5444.2	1125.3	66.9	41.5	24.2	17.3	11.5	11.5	5.8	1.2	0.0
67.5°	4765.1	833.6	53.0	27.7	13.8	8.1	5.8	3.5	0.0	0.0	0.0
70°	3878.5	601.8	41.5	17.3	8.1	5.8	2.3	1.2	0.0	0.0	0.0
72.5°	2462.7	344.7	32.3	10.4	5.8	2.3	0.0	0.0	0.0	0.0	0.0
75°	952.3	134.9	21.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	269.8	63.4	12.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.3	27.7	6.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.4	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.6	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	1.2	0.0	0.0	0.0	0.0	0.0	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)