

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: P528103

Luminaire Tested: **GALN-SA3A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6344 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

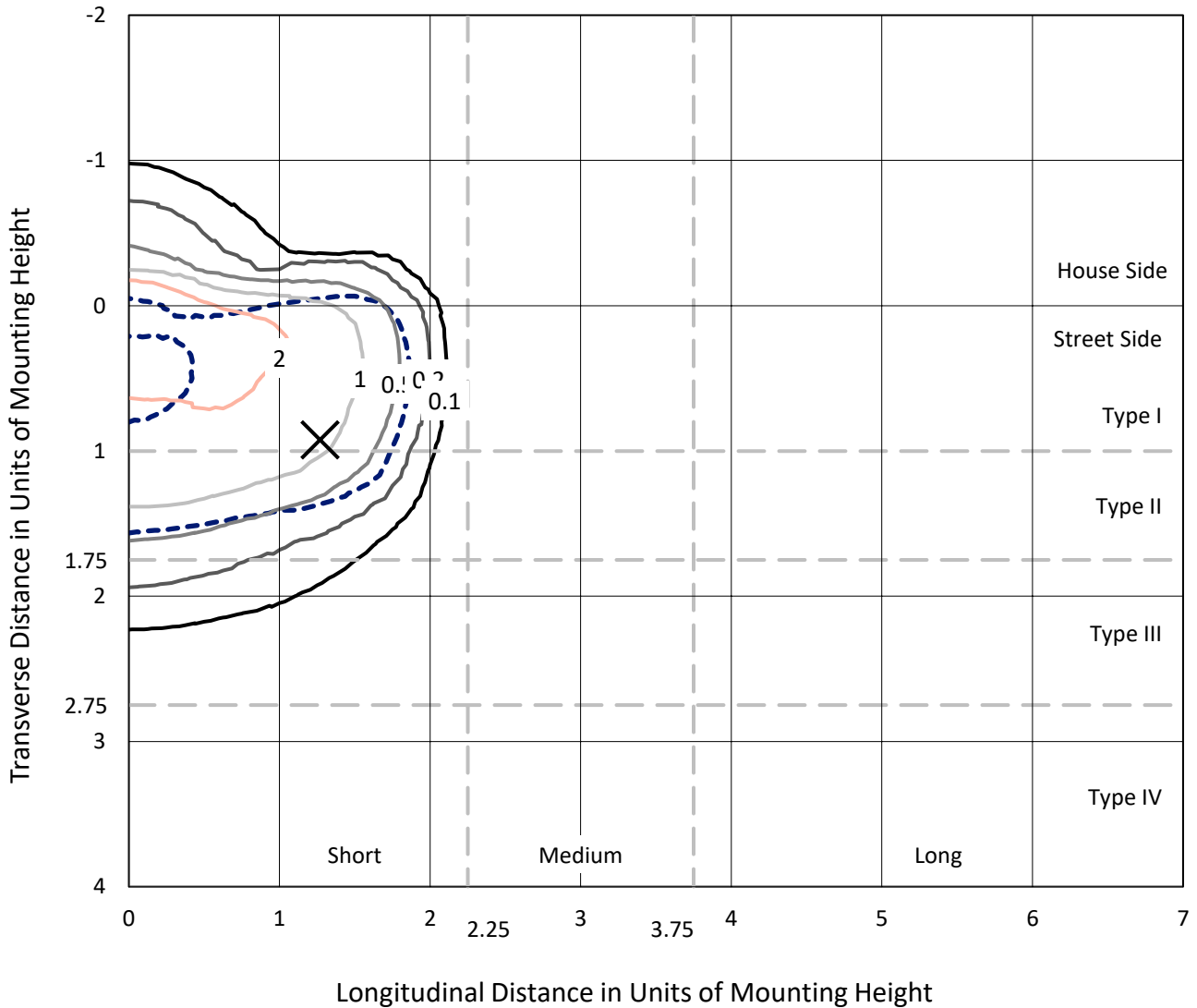
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

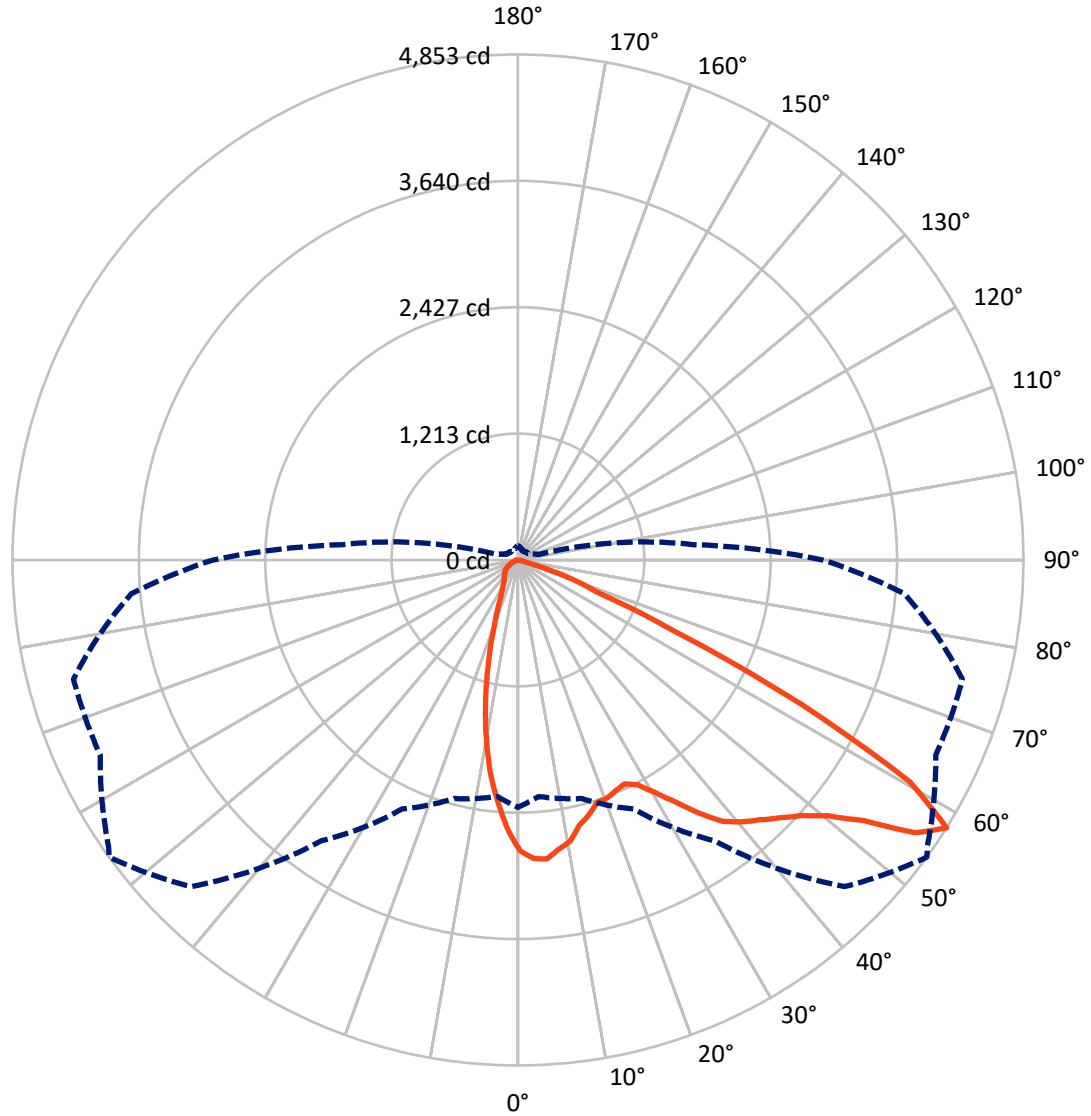
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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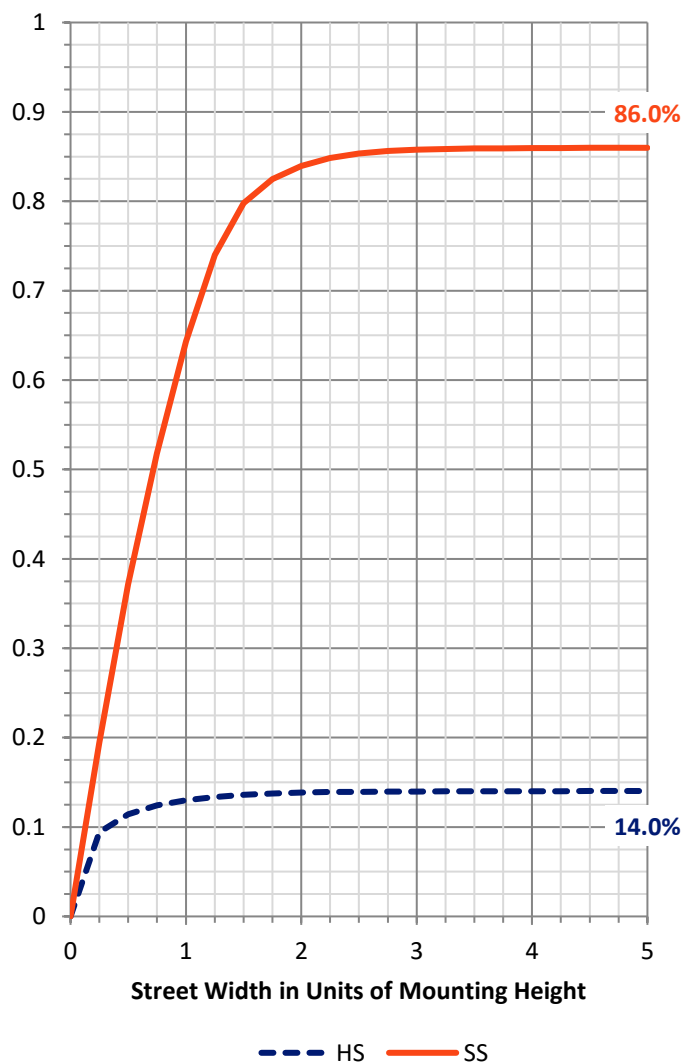
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.5	0.0	896.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5447.5	0.0	5447.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	6344.0	0.0	6344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	3.7
10°-20°	499.3	7.9
20°-30°	661.7	10.4
30°-40°	961.6	15.2
40°-50°	1425.9	22.5
50°-60°	1783.0	28.1
60°-70°	703.3	11.1
70°-80°	70.0	1.1
80°-90°	5.5	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°	6344.0	100.0
0°-180°	6344.0	100.0

Coefficient of Utilization

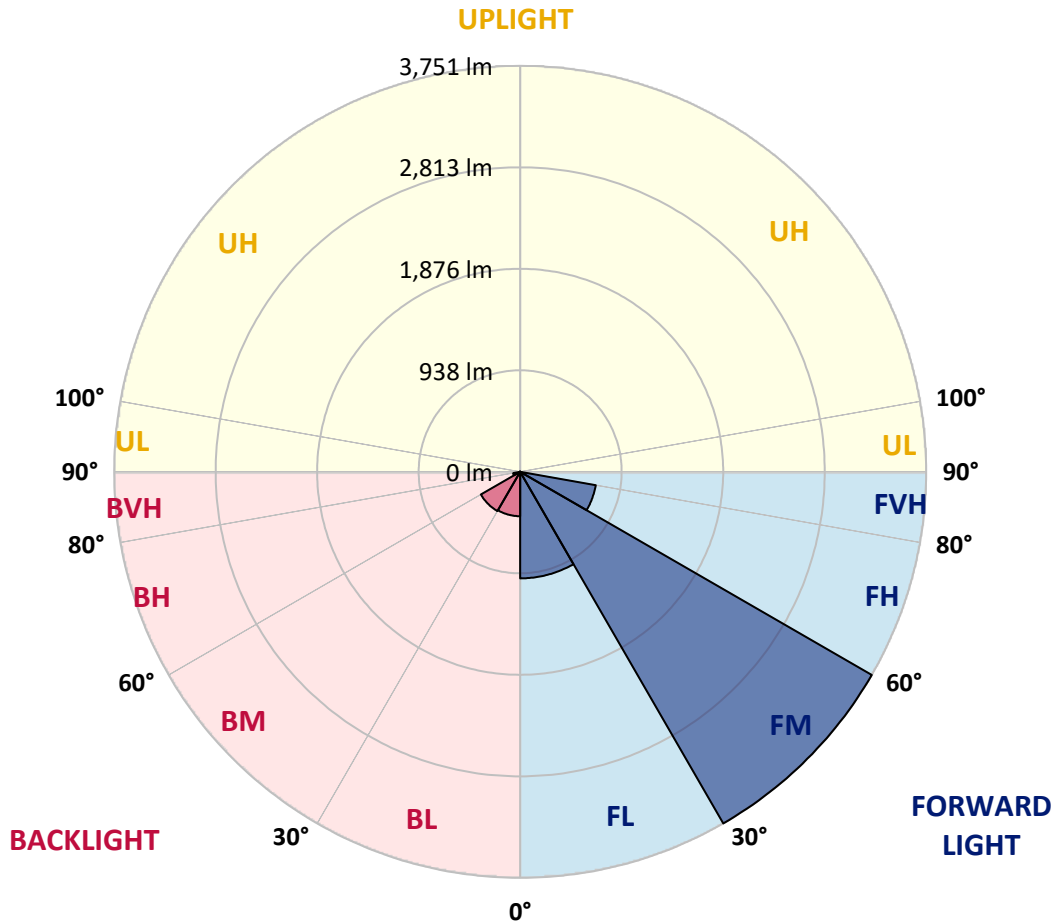


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.8	15.5			
FM (30°-60°)	3751.2	59.1			
FH (60°-80°)	709.0	11.2			G1/1800
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	410.0	6.5	B1/500		
BM (30°-60°)	419.2	6.6	B1/1000		
BH (60°-80°)	64.3	1.0	B0/110		G0/110
BVH (80°-90°)	3.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6
2.5°	2957.4	2926.7	2929.1	2918.5	2904.3	2914.9	2868.9	2879.6	2878.4	2815.9	2774.6
5°	2883.1	2916.1	2881.9	2910.2	2883.1	2912.6	2884.3	2863.0	2828.8	2782.8	2706.1
7.5°	2756.9	2725.0	2734.5	2769.8	2775.7	2841.8	2806.4	2833.5	2819.4	2728.6	2623.6
10°	2503.2	2496.2	2543.3	2590.5	2648.3	2719.1	2746.3	2730.9	2720.3	2686.1	2545.7
12.5°	2308.6	2328.7	2327.5	2405.3	2503.2	2543.3	2614.1	2611.8	2670.8	2607.1	2472.6
15°	2123.4	2134.0	2183.6	2231.9	2340.4	2454.9	2542.2	2554.0	2624.7	2579.9	2415.9
17.5°	2010.1	1994.8	2033.7	2091.5	2202.4	2352.2	2449.0	2477.3	2574.0	2564.6	2351.1
20°	1898.1	1898.1	1929.9	1998.3	2099.8	2268.5	2440.7	2432.5	2574.0	2546.9	2281.5
22.5°	1860.3	1879.2	1887.5	1939.4	2059.7	2204.8	2405.3	2420.7	2594.1	2538.6	2250.8
25°	1912.2	1887.5	1889.8	1931.1	2044.4	2174.1	2379.4	2413.6	2630.6	2579.9	2226.0
27.5°	1920.5	1945.3	1952.3	1980.7	2056.1	2183.6	2444.3	2513.9	2721.5	2676.7	2233.1
30°	1992.4	2017.2	2016.0	2064.4	2116.3	2260.2	2589.4	2603.5	2909.0	2798.2	2276.7
32.5°	2079.7	2105.7	2114.0	2170.6	2211.9	2400.6	2766.3	2802.9	3089.5	2989.3	2391.2
35°	2188.3	2178.8	2216.6	2273.2	2361.7	2605.9	2982.2	3043.5	3284.2	3237.0	2509.1
37.5°	2323.9	2312.1	2348.7	2440.7	2561.0	2848.9	3181.5	3221.7	3425.7	3467.0	2727.4
40°	2419.5	2424.2	2535.1	2659.0	2786.4	3080.1	3307.8	3346.7	3524.8	3681.7	2892.5
42.5°	2578.7	2608.2	2741.5	2892.5	3025.8	3253.5	3410.4	3448.1	3570.8	3854.0	3115.5
45°	2810.0	2797.0	2944.4	3113.1	3260.6	3434.0	3531.9	3518.9	3598.0	4025.0	3255.9
47.5°	3107.2	3109.6	3207.5	3351.4	3504.8	3590.9	3667.6	3621.6	3654.6	4205.5	3443.4
50°	3310.1	3327.8	3406.9	3554.3	3631.0	3763.1	3861.0	3832.7	3822.1	4314.0	3561.4
52.5°	3362.0	3415.1	3457.6	3641.6	3820.9	4029.7	4154.8	4214.9	4026.2	4350.6	3711.2
55°	2970.4	3017.6	3167.4	3419.8	3892.9	4452.0	4624.3	4625.5	4292.8	4513.4	3816.2
57.5°	2374.7	2279.1	2371.1	2638.9	3291.3	4434.3	4853.1	4797.7	4426.1	4417.8	3725.4
60°	1642.1	1618.5	1624.4	1730.6	2277.9	3527.2	4324.6	4396.6	4075.7	3829.2	2949.2
62.5°	1301.2	1281.1	1255.2	1243.4	1414.4	2197.7	3050.6	3152.1	2850.1	2483.2	1748.3
65°	1019.2	1007.4	1011.0	1058.2	1057.0	1246.9	1668.0	1626.8	1302.3	962.6	549.7
67.5°	687.7	705.4	719.6	862.3	935.5	868.2	805.7	782.1	423.5	178.1	121.5
70°	386.9	389.3	404.6	539.1	710.2	673.6	555.6	555.6	211.2	64.9	69.6
72.5°	211.2	204.1	189.9	232.4	316.1	320.9	247.7	215.9	62.5	42.5	38.9
75°	102.6	101.5	87.3	72.0	68.4	56.6	43.6	40.1	28.3	27.1	23.6
77.5°	21.2	20.1	10.6	10.6	11.8	13.0	16.5	16.5	20.1	20.1	16.5
80°	0.0	0.0	1.2	4.7	8.3	11.8	14.2	14.2	16.5	16.5	13.0
82.5°	0.0	0.0	1.2	3.5	7.1	10.6	13.0	14.2	16.5	17.7	14.2
85°	0.0	0.0	0.0	2.4	5.9	8.3	7.1	7.1	5.9	4.7	2.4
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6	2794.6
2.5°	2753.3	2751.0	2696.7	2666.0	2610.6	2562.2	2523.3	2495.0	2495.0	2477.3	2460.8
5°	2675.5	2655.4	2539.8	2465.5	2360.5	2282.6	2229.6	2188.3	2123.4	2141.1	2071.5
7.5°	2578.7	2528.0	2374.7	2261.4	2116.3	2005.4	1892.2	1791.9	1695.2	1651.5	1675.1
10°	2474.9	2386.5	2180.0	2000.7	1820.2	1617.3	1485.2	1324.8	1225.7	1219.8	1193.8
12.5°	2365.2	2264.9	2013.7	1766.0	1528.8	1284.7	1082.9	933.1	865.9	791.6	805.7
15°	2282.6	2134.0	1828.5	1530.0	1215.1	968.5	765.6	650.0	586.3	568.6	562.7
17.5°	2193.0	2033.7	1639.7	1278.8	953.2	697.2	550.9	495.5	470.7	470.7	467.1
20°	2099.8	1920.5	1452.2	1045.2	714.9	520.2	441.2	423.5	422.3	421.1	421.1
22.5°	2038.5	1790.7	1282.3	830.5	539.1	416.4	383.4	376.3	381.0	395.2	395.2
25°	1973.6	1665.7	1094.7	640.6	417.6	357.4	338.6	343.3	355.1	368.1	363.3
27.5°	1907.5	1584.3	917.8	502.5	342.1	312.6	305.5	316.1	329.1	340.9	337.4
30°	1892.2	1497.0	750.3	381.0	293.7	272.5	277.2	286.7	299.6	304.4	309.1
32.5°	1915.8	1428.6	614.6	312.6	256.0	250.1	250.1	254.8	263.1	273.7	270.1
35°	1983.0	1389.6	486.0	271.3	234.8	228.9	227.7	232.4	237.1	240.7	237.1
37.5°	2085.6	1359.0	397.5	240.7	220.6	211.2	208.8	207.6	212.3	213.5	215.9
40°	2216.6	1375.5	337.4	221.8	206.4	195.8	188.7	188.7	188.7	192.3	193.5
42.5°	2358.1	1397.9	291.4	211.2	193.5	180.5	173.4	171.1	173.4	178.1	176.9
45°	2506.8	1441.5	261.9	194.6	181.7	165.2	155.7	153.4	159.3	168.7	167.5
47.5°	2646.0	1504.1	239.5	184.0	169.9	154.5	142.7	140.4	151.0	164.0	165.2
50°	2785.2	1612.6	231.2	175.8	161.6	143.9	133.3	130.9	142.7	159.3	162.8
52.5°	2945.6	1729.4	225.3	165.2	152.2	135.7	123.9	121.5	134.5	155.7	156.9
55°	3050.6	1828.5	220.6	146.3	134.5	122.7	113.2	112.1	126.2	145.1	149.8
57.5°	2927.9	1690.5	204.1	127.4	114.4	108.5	100.3	100.3	112.1	129.8	133.3
60°	2220.1	1112.4	145.1	102.6	96.7	93.2	89.7	89.7	99.1	112.1	113.2
62.5°	1300.0	599.3	93.2	82.6	82.6	79.0	73.1	73.1	82.6	89.7	90.8
65°	385.7	192.3	75.5	70.8	69.6	63.7	57.8	56.6	63.7	67.2	66.1
67.5°	110.9	88.5	62.5	59.0	57.8	48.4	44.8	43.6	44.8	42.5	41.3
70°	66.1	60.2	48.4	49.5	43.6	35.4	31.9	30.7	28.3	24.8	22.4
72.5°	36.6	36.6	35.4	37.7	30.7	23.6	20.1	16.5	13.0	10.6	9.4
75°	22.4	23.6	24.8	26.0	20.1	15.3	13.0	8.3	4.7	2.4	2.4
77.5°	15.3	16.5	17.7	18.9	16.5	14.2	10.6	5.9	1.2	0.0	0.0
80°	11.8	13.0	15.3	16.5	17.7	18.9	14.2	5.9	1.2	0.0	0.0
82.5°	13.0	14.2	17.7	16.5	16.5	16.5	13.0	5.9	1.2	0.0	0.0
85°	2.4	3.5	5.9	5.9	8.3	10.6	8.3	2.4	0.0	0.0	0.0
87.5°	0.0	0.0	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)