

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: P528656

Luminaire Tested: **GALN-SA3D-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17641 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

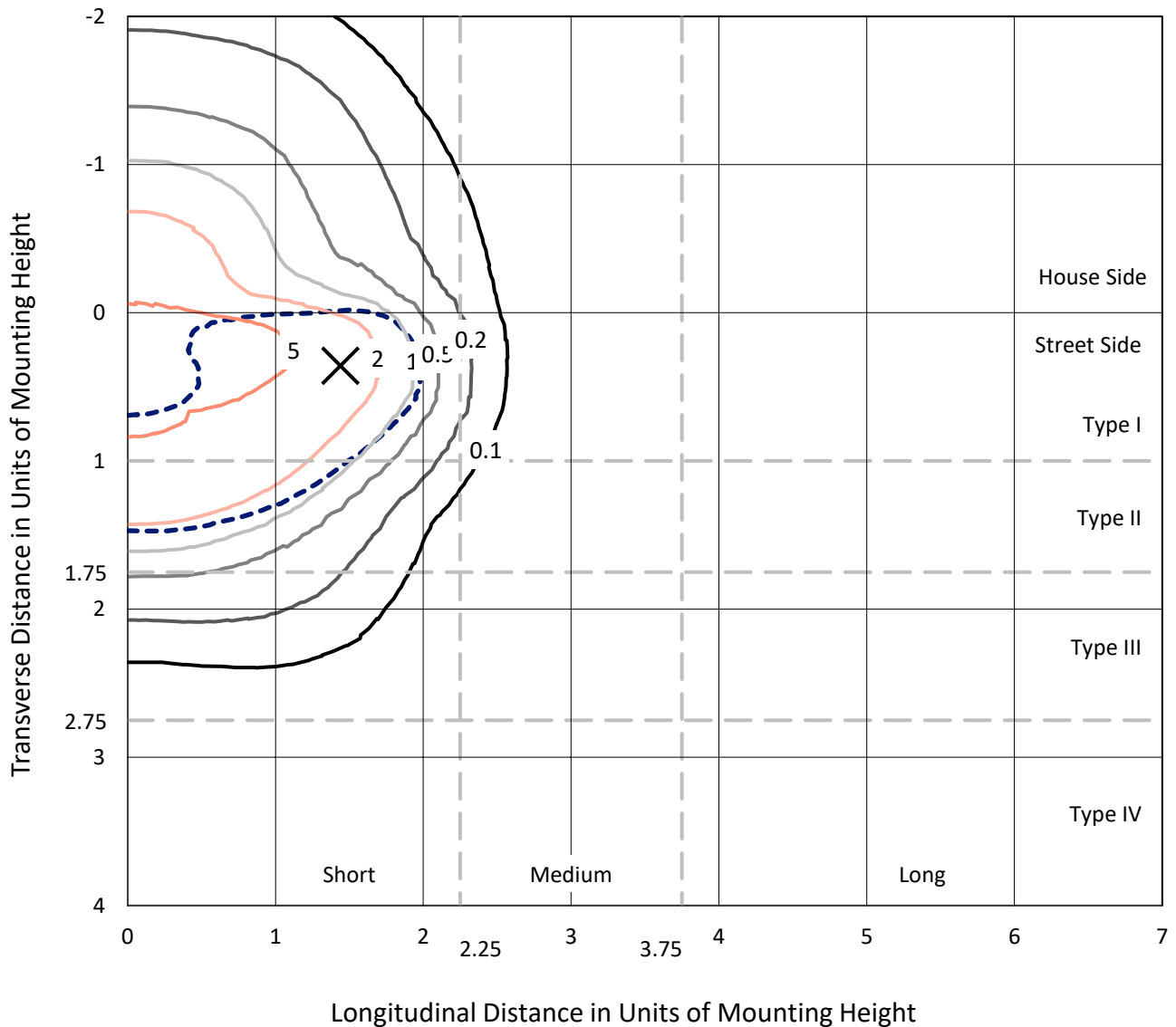
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

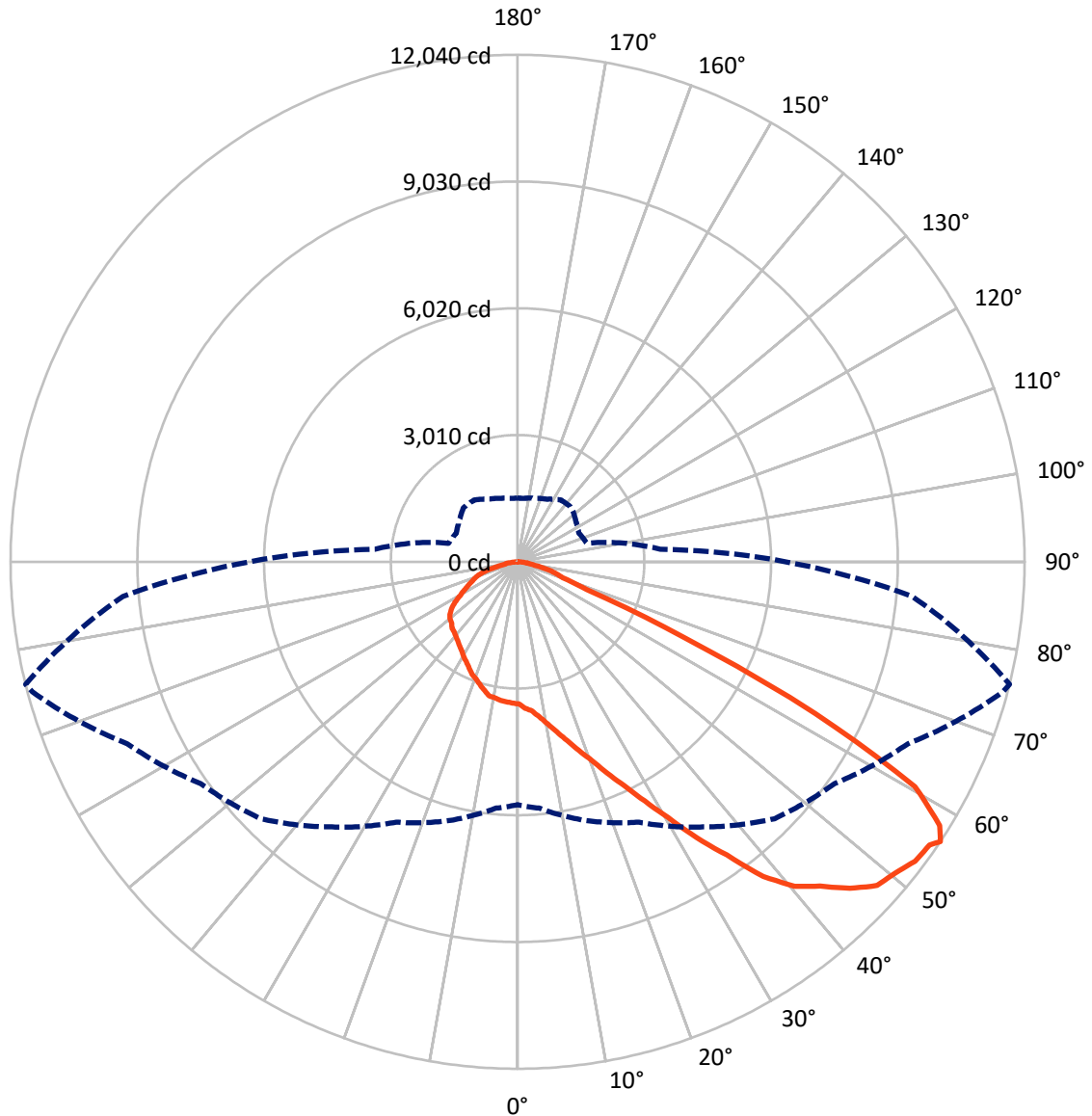
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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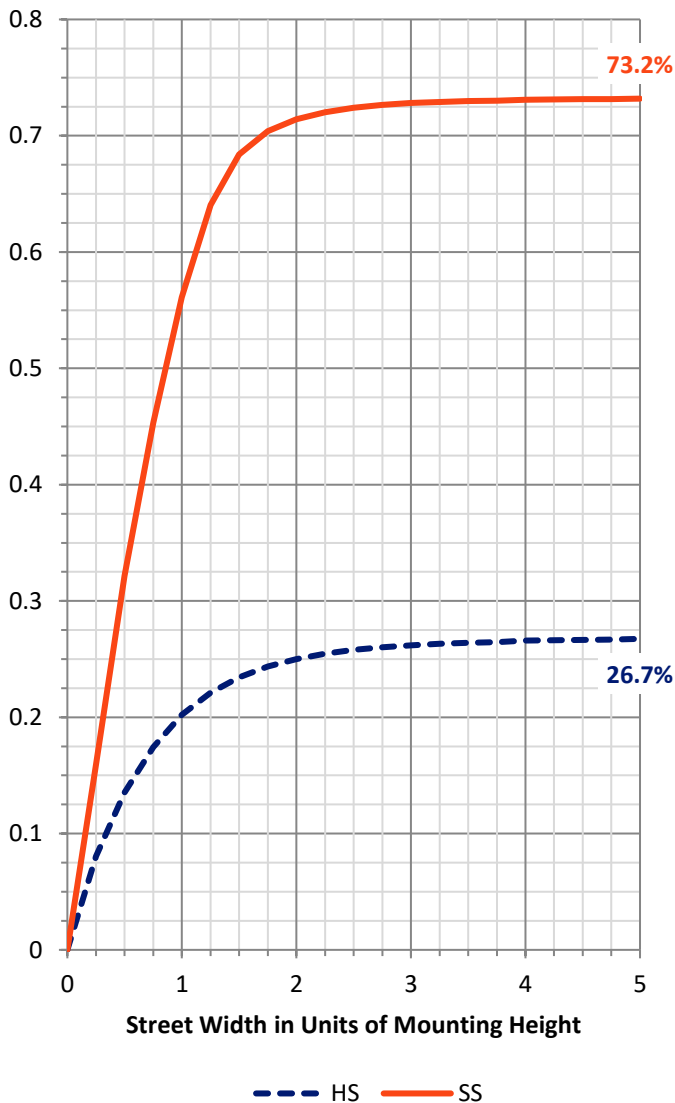
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4743.1	0.0	4743.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12897.9	0.0	12897.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	17641.0	0.0	17641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	1.9
10°-20°	1051.5	6.0
20°-30°	1839.0	10.4
30°-40°	2879.3	16.3
40°-50°	4188.5	23.7
50°-60°	4603.5	26.1
60°-70°	2054.8	11.6
70°-80°	593.5	3.4
80°-90°	96.3	0.5
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°	17641.0	100.0
0°-180°	17641.0	100.0

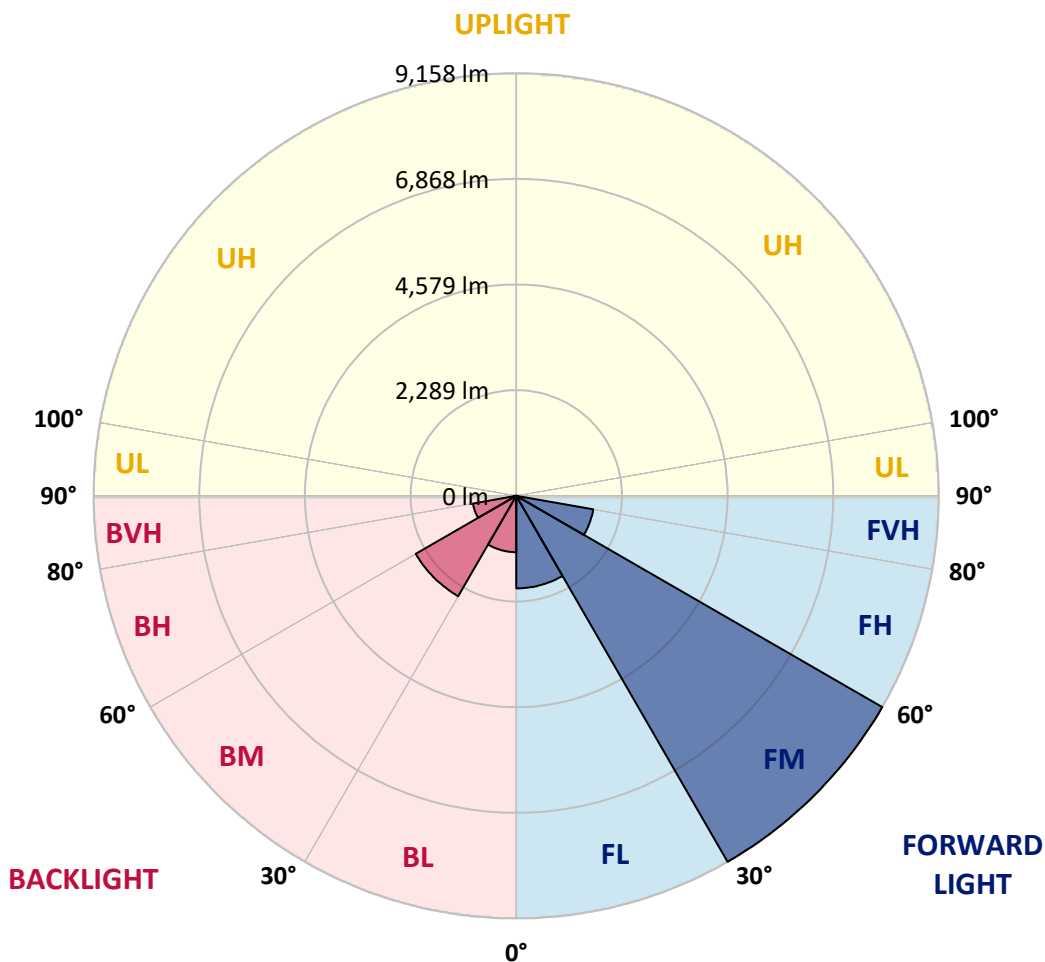


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.7	11.4			
FM (30°-60°)	9157.8	51.9			
FH (60°-80°)	1693.9	9.6			G1/1800
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	1220.5	6.9	B3/2500		
BM (30°-60°)	2513.5	14.2	B3/5000		
BH (60°-80°)	954.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	54.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4
2.5°	3718.4	3658.9	3654.4	3638.4	3647.5	3606.3	3562.9	3505.7	3446.3	3482.9	3396.0
5°	3979.1	3899.1	3931.1	3876.2	3883.1	3828.2	3739.0	3672.7	3599.5	3556.0	3494.3
7.5°	4070.6	4077.4	4100.3	4091.2	4045.4	4045.4	3986.0	3869.3	3741.3	3716.1	3613.2
10°	4194.1	4196.4	4171.2	4178.1	4242.1	4212.4	4159.8	4109.5	3944.8	3915.1	3732.1
12.5°	4237.5	4196.4	4237.5	4274.1	4349.6	4390.7	4379.3	4342.7	4166.6	4146.0	3878.5
15°	4244.4	4219.2	4253.5	4335.9	4402.2	4576.0	4662.9	4637.7	4404.5	4406.7	4043.1
17.5°	4212.4	4246.7	4260.4	4331.3	4484.5	4646.9	4898.4	4932.7	4740.6	4710.9	4251.2
20°	4255.8	4230.7	4249.0	4313.0	4516.5	4770.4	5099.7	5326.1	5056.2	5035.6	4466.2
22.5°	4422.8	4388.4	4383.9	4425.0	4571.4	4834.4	5312.3	5719.4	5440.4	5451.8	4733.8
25°	4553.1	4571.4	4555.4	4553.1	4644.6	4930.4	5593.6	6188.2	5961.8	5895.5	5049.3
27.5°	4777.2	4820.7	4788.6	4832.1	4811.5	5074.5	5794.9	6707.3	6524.4	6435.2	5335.2
30°	5088.2	5111.1	5081.4	5081.4	5019.6	5275.7	5977.8	7249.3	7173.8	7052.6	5671.4
32.5°	5497.6	5531.9	5472.4	5438.1	5429.0	5575.3	6307.1	7784.4	7912.5	7809.6	6117.3
35°	6039.5	6019.0	5948.1	5916.1	5792.6	6035.0	6796.5	8399.6	8735.7	8552.8	6657.0
37.5°	6517.5	6485.5	6480.9	6302.5	6332.3	6531.2	7212.7	8866.1	9533.8	9481.2	7226.4
40°	6963.4	6993.2	7041.2	6940.6	6894.8	7114.4	7697.5	9222.8	10153.6	10133.0	7665.5
42.5°	7441.4	7413.9	7498.6	7413.9	7345.3	7656.3	8223.5	9469.8	10697.8	10528.6	8125.1
45°	8134.3	8047.4	8077.1	8084.0	8033.7	8148.0	8440.7	9648.2	11079.7	11061.5	8461.3
47.5°	8712.9	8715.2	8664.8	8626.0	8472.7	8587.1	8683.1	9760.2	11518.8	11489.1	8591.7
50°	8927.8	8898.1	9044.5	9129.1	9138.2	8905.0	8872.9	9822.0	11749.8	11619.4	8722.0
52.5°	8154.9	8182.3	8413.3	8916.4	9206.8	9232.0	9094.8	9950.0	11843.6	11816.1	8827.2
55°	6563.2	6695.9	7075.5	7656.3	8344.7	9101.6	9334.9	10082.7	11893.9	11871.0	9293.7
56°	5769.7	5872.6	6366.6	6821.6	7686.1	8628.3	9184.0	10224.5	11932.7	12040.2	9403.5
57.5°	4644.6	4763.5	5118.0	5634.8	6654.7	7727.2	8767.8	10050.7	11781.8	11823.0	9483.5
60°	2904.3	2915.7	3341.1	3681.8	4399.9	5447.3	6691.3	8744.9	10903.7	10844.2	8518.5
62.5°	1904.9	1907.2	2293.7	2572.7	2899.7	3139.8	3937.9	5799.4	8045.1	7939.9	6064.7
65°	1337.8	1367.5	1667.1	2039.9	2172.5	2046.7	2021.6	3057.5	4493.6	4342.7	3258.7
67.5°	978.8	981.1	1246.3	1646.5	1838.6	1557.3	1264.6	1493.3	1779.2	1774.6	1509.3
70°	647.2	674.6	878.1	1230.3	1449.9	1250.9	1033.7	1068.0	1132.0	1132.0	1122.8
72.5°	377.3	402.5	537.4	779.8	814.1	782.1	818.7	914.7	955.9	953.6	942.2
75°	215.0	226.4	256.1	324.7	404.8	477.9	601.4	692.9	734.1	759.2	729.5
77.5°	125.8	132.6	150.9	185.2	210.4	258.4	327.0	391.0	445.9	439.1	443.6
80°	66.3	66.3	84.6	109.8	146.4	182.9	217.2	253.8	283.6	290.4	297.3
82.5°	38.9	41.2	54.9	80.0	105.2	130.3	166.9	192.1	219.5	221.8	226.4
85°	20.6	22.9	34.3	52.6	70.9	80.0	82.3	77.8	84.6	80.0	91.5
87.5°	6.9	6.9	11.4	9.1	9.1	11.4	13.7	13.7	18.3	18.3	18.3
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°	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4	3375.4
2.5°	3393.7	3393.7	3354.8	3281.6	3270.2	3240.5	3213.0	3210.7	3190.1	3171.8	3162.7
5°	3457.7	3386.8	3329.6	3263.3	3185.6	3149.0	3107.8	3062.1	3043.8	3062.1	3059.8
7.5°	3530.9	3471.4	3299.9	3176.4	3087.2	3050.6	3004.9	2956.9	2961.5	2961.5	2929.4
10°	3601.8	3521.7	3247.3	3089.5	2959.2	2931.7	2906.6	2924.9	2947.7	2952.3	2931.7
12.5°	3720.7	3540.0	3222.2	3002.6	2920.3	2860.8	2876.8	2927.2	2975.2	2961.5	2977.5
15°	3809.9	3556.0	3107.8	2913.4	2810.5	2838.0	2895.1	2929.4	3009.5	3000.3	3016.3
17.5°	3896.8	3565.2	2995.8	2794.5	2751.1	2826.5	2870.0	2968.3	2993.5	3048.4	3068.9
20°	4075.2	3583.5	2881.4	2721.3	2707.6	2794.5	2870.0	2915.7	2970.6	3018.6	3018.6
22.5°	4166.6	3574.3	2806.0	2625.3	2668.7	2723.6	2792.2	2870.0	2870.0	2915.7	2918.0
25°	4281.0	3537.7	2687.0	2579.6	2611.6	2664.2	2741.9	2714.5	2744.2	2744.2	2780.8
27.5°	4411.3	3460.0	2584.1	2497.2	2561.3	2618.4	2629.9	2611.6	2577.3	2572.7	2559.0
30°	4516.5	3363.9	2508.7	2469.8	2522.4	2554.4	2517.8	2478.9	2419.5	2414.9	2382.9
32.5°	4660.6	3245.0	2414.9	2401.2	2460.6	2462.9	2451.5	2392.0	2305.1	2268.5	2232.0
35°	4903.0	3176.4	2344.0	2364.6	2382.9	2376.0	2355.4	2291.4	2204.5	2188.5	2174.8
37.5°	5081.4	3126.1	2270.8	2296.0	2312.0	2321.1	2259.4	2188.5	2190.8	2158.8	2149.6
40°	5282.6	3094.1	2211.4	2222.8	2225.1	2254.8	2179.4	2145.1	2161.1	2140.5	2154.2
42.5°	5541.0	3103.2	2149.6	2140.5	2183.9	2172.5	2135.9	2090.2	2099.3	2037.6	2046.7
45°	5678.2	3165.0	2113.0	2071.9	2119.9	2117.6	2069.6	2026.1	1971.3	1852.3	1856.9
47.5°	5769.7	3181.0	2026.1	1998.7	2049.0	2078.7	2023.9	1923.2	1845.5	1760.9	1740.3
50°	5863.5	3210.7	1985.0	1927.8	1948.4	2019.3	1950.7	1854.6	1779.2	1703.7	1715.1
52.5°	5945.8	3267.9	1904.9	1820.3	1856.9	1934.7	1898.1	1781.4	1699.1	1637.4	1619.1
55°	6311.7	3396.0	1770.0	1660.2	1747.1	1845.5	1824.9	1683.1	1593.9	1561.9	1557.3
56°	6368.9	3400.5	1699.1	1605.4	1685.4	1815.8	1790.6	1639.7	1559.6	1509.3	1511.6
57.5°	6378.0	3345.6	1598.5	1555.1	1623.7	1772.3	1740.3	1605.4	1495.6	1449.9	1436.1
60°	5611.9	2611.6	1472.7	1445.3	1525.3	1639.7	1628.2	1511.6	1388.1	1335.5	1360.7
62.5°	3825.9	1914.1	1374.4	1369.8	1411.0	1523.0	1493.3	1388.1	1285.2	1250.9	1234.9
65°	2227.4	1452.1	1278.3	1260.0	1294.4	1353.8	1374.4	1264.6	1157.1	1134.3	1127.4
67.5°	1314.9	1200.6	1154.9	1125.1	1113.7	1150.3	1166.3	1102.3	994.8	962.8	990.2
70°	1100.0	1068.0	1070.2	1019.9	992.5	967.3	953.6	896.4	807.3	766.1	754.7
72.5°	949.0	935.3	926.2	880.4	855.3	798.1	738.6	681.5	615.2	580.9	583.1
75°	724.9	720.4	724.9	702.1	658.6	612.9	558.0	484.8	434.5	391.0	400.2
77.5°	432.2	445.9	452.8	443.6	425.4	384.2	349.9	301.9	253.8	219.5	215.0
80°	297.3	308.7	320.2	308.7	290.4	260.7	224.1	187.5	153.2	134.9	130.3
82.5°	226.4	237.8	244.7	233.3	210.4	178.4	153.2	128.1	100.6	82.3	77.8
85°	82.3	93.8	91.5	109.8	118.9	114.3	98.3	75.5	57.2	41.2	38.9
87.5°	22.9	20.6	22.9	22.9	22.9	20.6	18.3	18.3	18.3	11.4	9.1
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)