

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637641

Luminaire Tested: GWS-SA4D-730-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14453.2 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

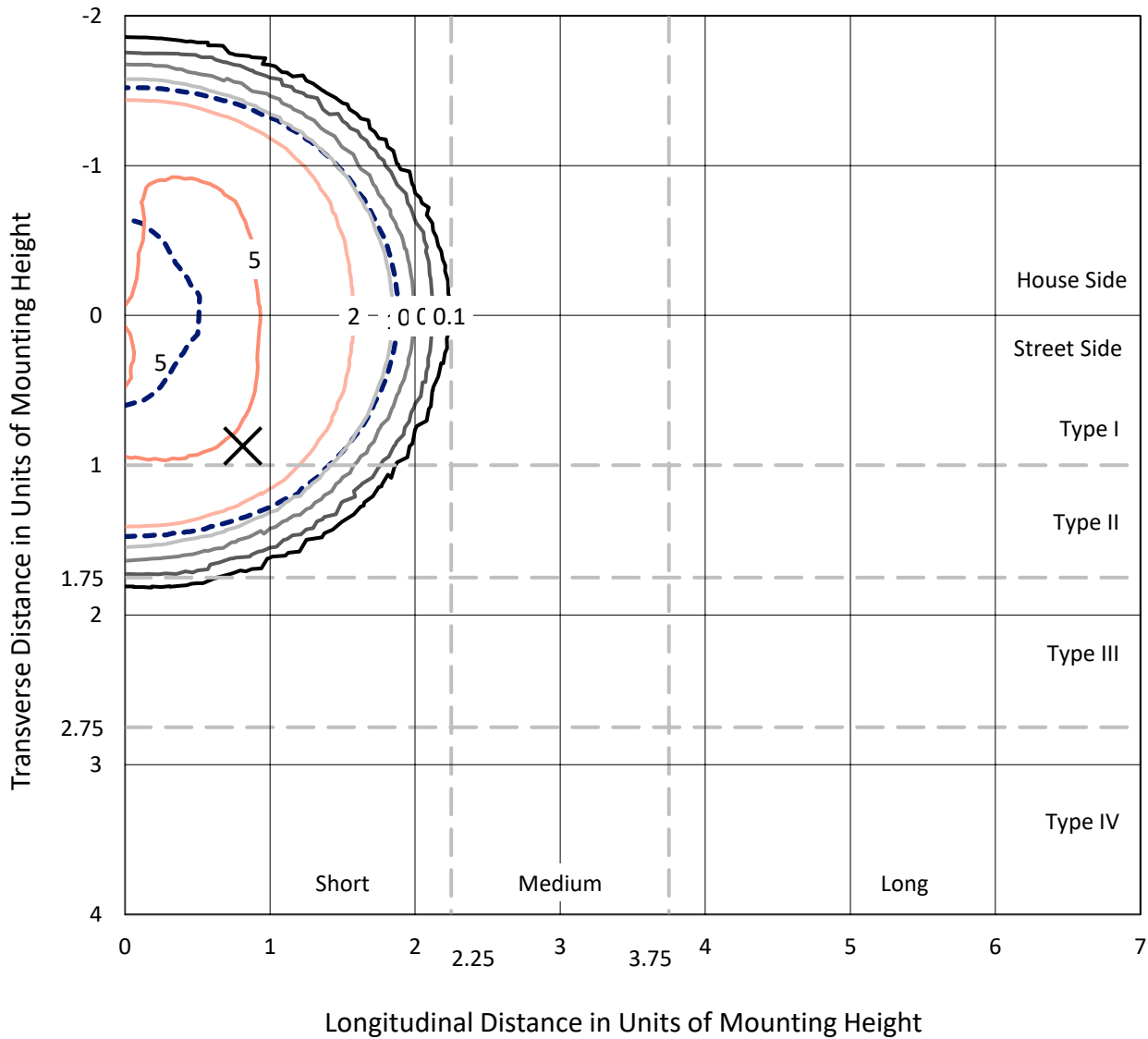
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

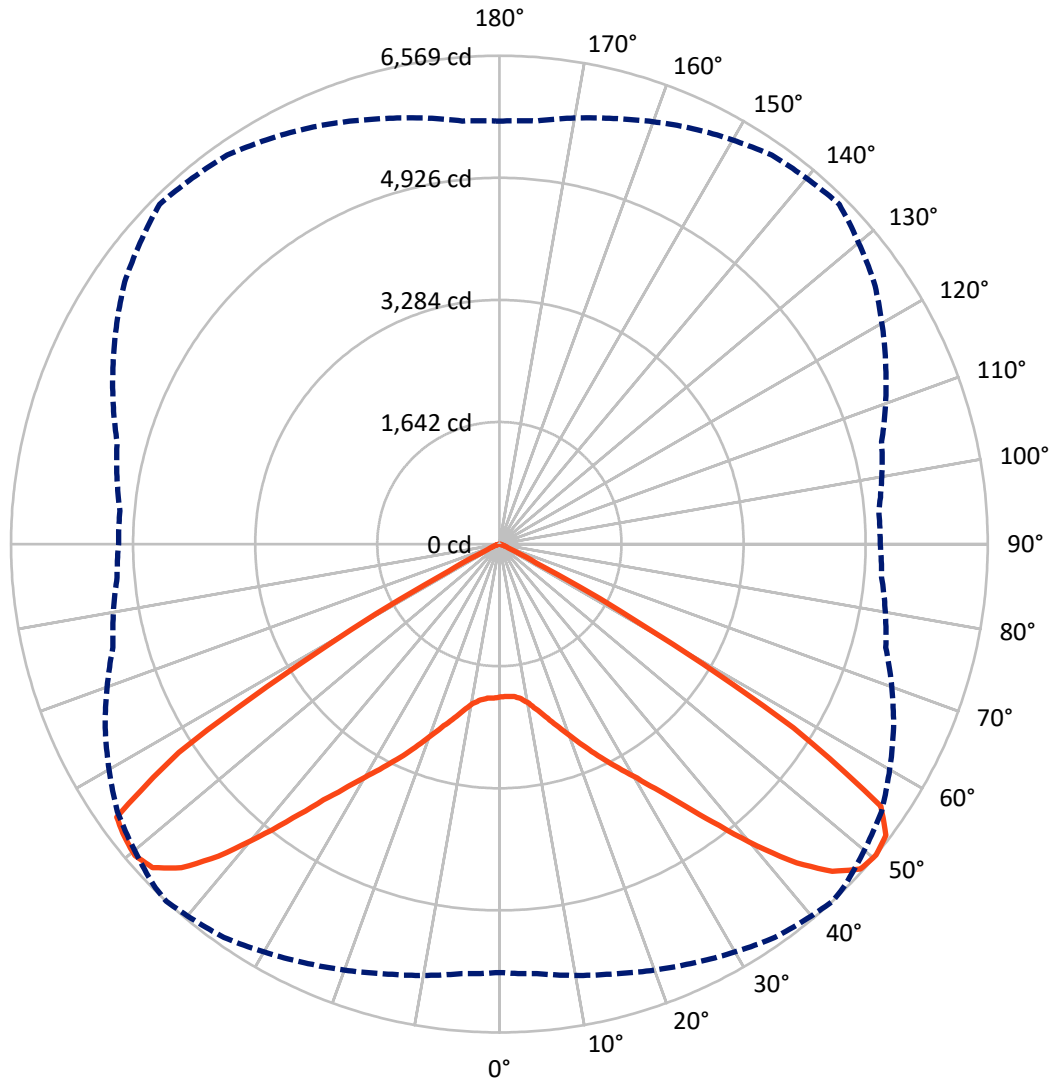
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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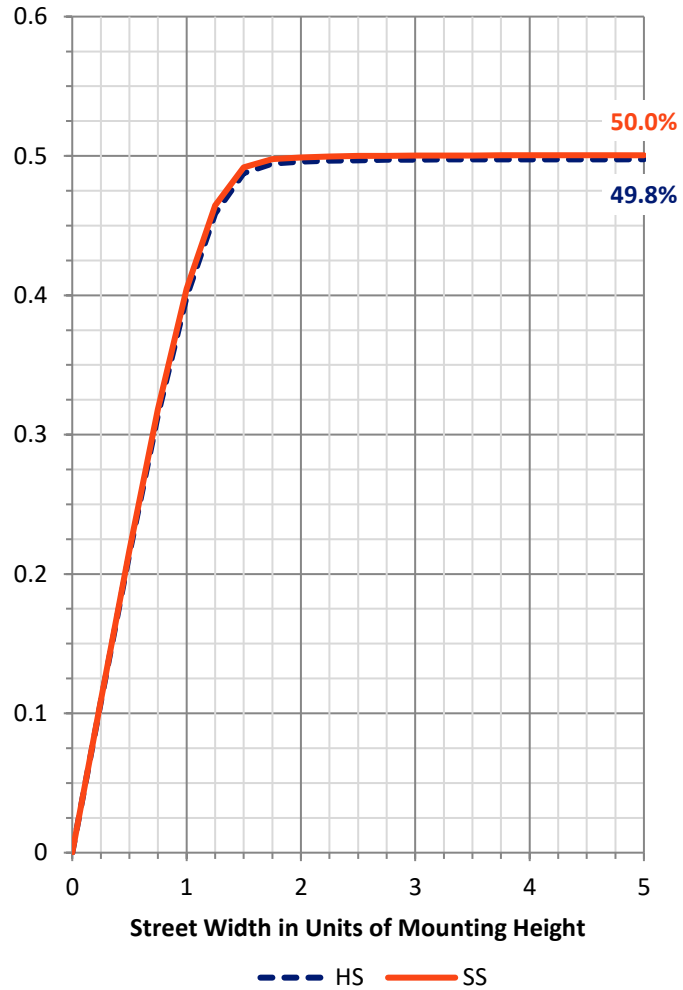
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7226.4	0.0	7226.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7226.8	0.0	7226.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	14453.2	0.0	14453.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	1.4
10°-20°	696.7	4.8
20°-30°	1409.5	9.8
30°-40°	2615.1	18.1
40°-50°	4340.8	30.0
50°-60°	4430.0	30.7
60°-70°	726.5	5.0
70°-80°	31.8	0.2
80°-90°	0.4	0.0
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°	14453.2	100.0
0°-180°	14453.2	100.0

Coefficient of Utilization



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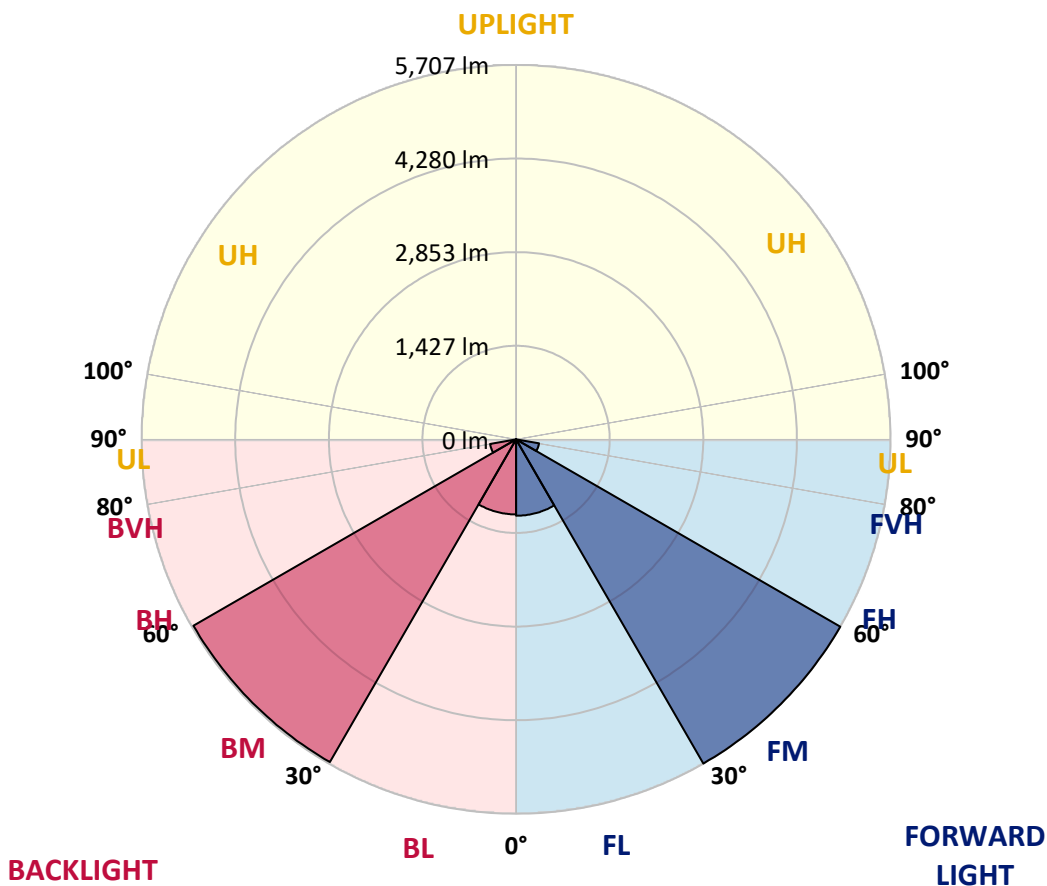
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.4	8.1			
FM (30°-60°)	5706.8	39.5			
FH (60°-80°)	355.4	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1144.2	7.9	B3/2500		
BM (30°-60°)	5679.1	39.3	B4/8500		
BH (60°-80°)	402.9	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7
2.5°	2017.4	2022.2	2028.6	2035.0	2043.0	2050.9	2055.7	2070.1	2066.9	2079.7	2079.7
5°	1995.0	1999.8	2007.8	2022.2	2039.8	2057.3	2070.1	2098.9	2114.9	2140.5	2150.1
7.5°	2006.2	2012.6	2022.2	2044.5	2071.7	2098.9	2113.3	2159.6	2191.6	2239.6	2266.7
10°	2043.0	2049.3	2065.3	2103.7	2138.9	2177.2	2194.8	2254.0	2305.1	2370.7	2409.0
12.5°	2084.5	2092.5	2124.5	2182.0	2242.8	2293.9	2317.9	2383.4	2436.2	2509.7	2570.5
15°	2127.7	2140.5	2190.0	2274.7	2361.1	2429.8	2455.4	2525.7	2578.5	2656.8	2725.5
17.5°	2228.4	2242.8	2298.7	2389.8	2508.1	2588.1	2610.4	2684.0	2723.9	2776.7	2848.6
20°	2354.7	2381.8	2450.6	2560.9	2690.4	2767.1	2783.1	2855.0	2851.8	2874.2	2936.5
22.5°	2511.3	2530.5	2605.6	2736.7	2882.2	2966.9	3003.7	3034.1	2994.1	2974.9	3014.9
25°	2674.4	2696.8	2778.3	2922.2	3085.2	3182.7	3213.1	3237.1	3173.1	3101.2	3106.0
27.5°	2885.4	2901.4	2981.3	3134.8	3297.8	3408.1	3435.3	3476.9	3392.1	3277.0	3245.1
30°	3136.4	3152.3	3237.1	3398.5	3560.0	3654.3	3695.9	3747.0	3654.3	3510.4	3473.7
32.5°	3430.5	3446.5	3555.2	3721.4	3854.1	3956.4	3996.4	4050.7	3977.2	3815.7	3774.2
35°	3782.2	3791.8	3919.7	4100.3	4241.0	4340.1	4367.2	4431.2	4349.7	4188.2	4165.8
37.5°	4189.8	4201.0	4340.1	4549.5	4693.4	4803.7	4846.8	4864.4	4765.3	4584.6	4567.1
40°	4637.4	4674.2	4810.0	5035.4	5196.9	5336.0	5374.3	5315.2	5176.1	4929.9	4898.0
42.5°	5104.2	5136.2	5288.0	5532.6	5719.6	5861.9	5863.5	5735.6	5499.0	5158.5	5110.6
45°	5492.6	5505.4	5702.0	5948.2	6178.4	6279.1	6288.7	6056.9	5700.4	5291.2	5188.9
47.5°	5759.6	5780.4	5951.4	6188.0	6442.2	6533.3	6514.1	6224.8	5796.4	5377.5	5208.1
50°	5762.8	5798.0	5983.4	6212.0	6458.2	6568.5	6541.3	6272.7	5850.7	5380.7	5161.7
52.5°	5252.8	5310.4	5612.5	5943.4	6320.7	6509.3	6515.7	6335.1	5829.9	5329.6	5120.2
55°	3962.8	4025.2	4405.6	4969.9	5698.8	6224.8	6315.9	6261.5	5805.9	5352.0	5193.7
57.5°	2097.3	2049.3	2260.4	2819.8	3735.8	4666.2	4933.1	5367.9	5539.0	5379.1	5329.6
60°	457.2	487.6	649.0	874.4	1457.9	2194.8	2455.4	3200.3	4085.9	4479.1	4763.7
62.5°	196.6	193.4	201.4	228.6	334.1	556.3	679.4	1109.4	1750.4	2404.2	2847.0
65°	161.5	163.1	169.4	169.4	158.3	159.9	167.8	254.2	409.2	573.9	770.5
67.5°	121.5	123.1	134.3	137.5	129.5	115.1	113.5	95.9	100.7	126.3	131.1
70°	76.7	76.7	83.1	86.3	86.3	79.9	78.3	68.7	67.1	76.7	86.3
72.5°	41.6	41.6	44.8	46.4	44.8	43.2	43.2	41.6	40.0	46.4	59.1
75°	17.6	17.6	19.2	19.2	17.6	17.6	17.6	17.6	17.6	20.8	32.0
77.5°	3.2	4.8	6.4	4.8	3.2	3.2	3.2	4.8	4.8	6.4	9.6
80°	1.6	1.6	3.2	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7	2055.7
2.5°	2090.9	2073.3	2079.7	2082.9	2078.1	2074.9	2057.3	2052.5	2044.5	2031.8	2028.6
5°	2161.2	2146.9	2145.3	2135.7	2113.3	2086.1	2052.5	2038.2	2022.2	2006.2	2003.0
7.5°	2279.5	2262.0	2250.8	2218.8	2167.6	2124.5	2068.5	2038.2	2017.4	1996.6	1991.8
10°	2431.4	2410.6	2378.6	2319.5	2250.8	2188.4	2122.9	2082.9	2050.9	2022.2	2020.6
12.5°	2592.9	2570.5	2512.9	2437.8	2354.7	2297.1	2214.0	2158.0	2110.1	2066.9	2062.1
15°	2762.3	2735.1	2656.8	2567.3	2490.5	2431.4	2340.3	2250.8	2177.2	2114.9	2108.5
17.5°	2891.8	2858.2	2765.5	2698.4	2636.0	2575.3	2473.0	2354.7	2257.2	2182.0	2164.4
20°	2973.3	2941.3	2853.4	2816.7	2787.9	2744.7	2623.2	2500.1	2391.4	2298.7	2282.7
22.5°	3051.6	3013.3	2936.5	2936.5	2958.9	2941.3	2810.3	2669.6	2541.7	2434.6	2410.6
25°	3139.6	3109.2	3054.8	3099.6	3155.5	3153.9	3019.7	2843.8	2696.8	2576.9	2552.9
27.5°	3267.4	3237.1	3217.9	3302.6	3372.9	3368.2	3221.1	3030.9	2875.8	2757.5	2735.1
30°	3492.8	3464.1	3443.3	3545.6	3635.1	3601.5	3440.1	3256.3	3099.6	2965.3	2949.3
32.5°	3793.4	3763.0	3735.8	3838.1	3918.1	3874.9	3721.4	3548.8	3368.2	3237.1	3205.1
35°	4188.2	4124.3	4097.1	4218.6	4252.2	4204.2	4057.1	3905.3	3713.4	3563.2	3542.4
37.5°	4595.8	4520.7	4501.5	4607.0	4661.4	4643.8	4471.2	4312.9	4105.1	3938.8	3914.9
40°	4944.3	4875.6	4842.0	5006.7	5129.8	5140.9	4985.9	4792.5	4547.9	4375.2	4332.1
42.5°	5148.9	5089.8	5081.8	5337.6	5539.0	5682.9	5497.4	5297.6	5040.2	4845.2	4810.0
45°	5195.3	5156.9	5224.1	5559.8	5873.1	6135.2	5977.0	5766.0	5487.8	5281.6	5248.0
47.5°	5190.5	5177.7	5297.6	5674.9	6071.3	6394.2	6315.9	6077.7	5809.1	5593.3	5561.4
50°	5121.8	5123.4	5323.2	5732.4	6151.2	6464.5	6386.2	6165.6	5925.8	5713.2	5687.7
52.5°	5094.6	5085.0	5275.2	5714.8	6232.8	6432.6	6256.7	6009.0	5742.0	5479.8	5441.5
55°	5190.5	5166.5	5281.6	5700.4	6242.3	6415.0	5951.4	5414.3	4867.6	4557.5	4531.9
57.5°	5334.4	5308.8	5363.1	5594.9	5742.0	5334.4	4380.0	3513.6	2950.9	2712.7	2608.8
60°	4763.7	4746.1	4704.5	4424.8	3795.0	2863.0	1950.2	1243.7	893.6	722.5	722.5
62.5°	2955.7	2931.7	2706.4	2011.0	1461.1	845.6	465.2	290.9	220.6	206.2	204.6
65°	829.6	824.9	682.6	482.8	306.9	190.2	167.8	171.0	167.8	163.1	161.5
67.5°	124.7	137.5	137.5	111.9	107.1	119.9	140.7	150.3	142.3	134.3	131.1
70°	79.9	86.3	83.1	71.9	76.7	89.5	100.7	102.3	97.5	89.5	87.9
72.5°	55.9	62.3	51.2	46.4	48.0	52.8	57.5	57.5	55.9	52.8	49.6
75°	33.6	33.6	24.0	22.4	22.4	24.0	24.0	27.2	27.2	25.6	24.0
77.5°	11.2	12.8	8.0	6.4	6.4	6.4	8.0	9.6	9.6	8.0	6.4
80°	1.6	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	1.6
82.5°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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)