

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: P637664

Luminaire Tested: GWS-SA4D-730-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18592 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

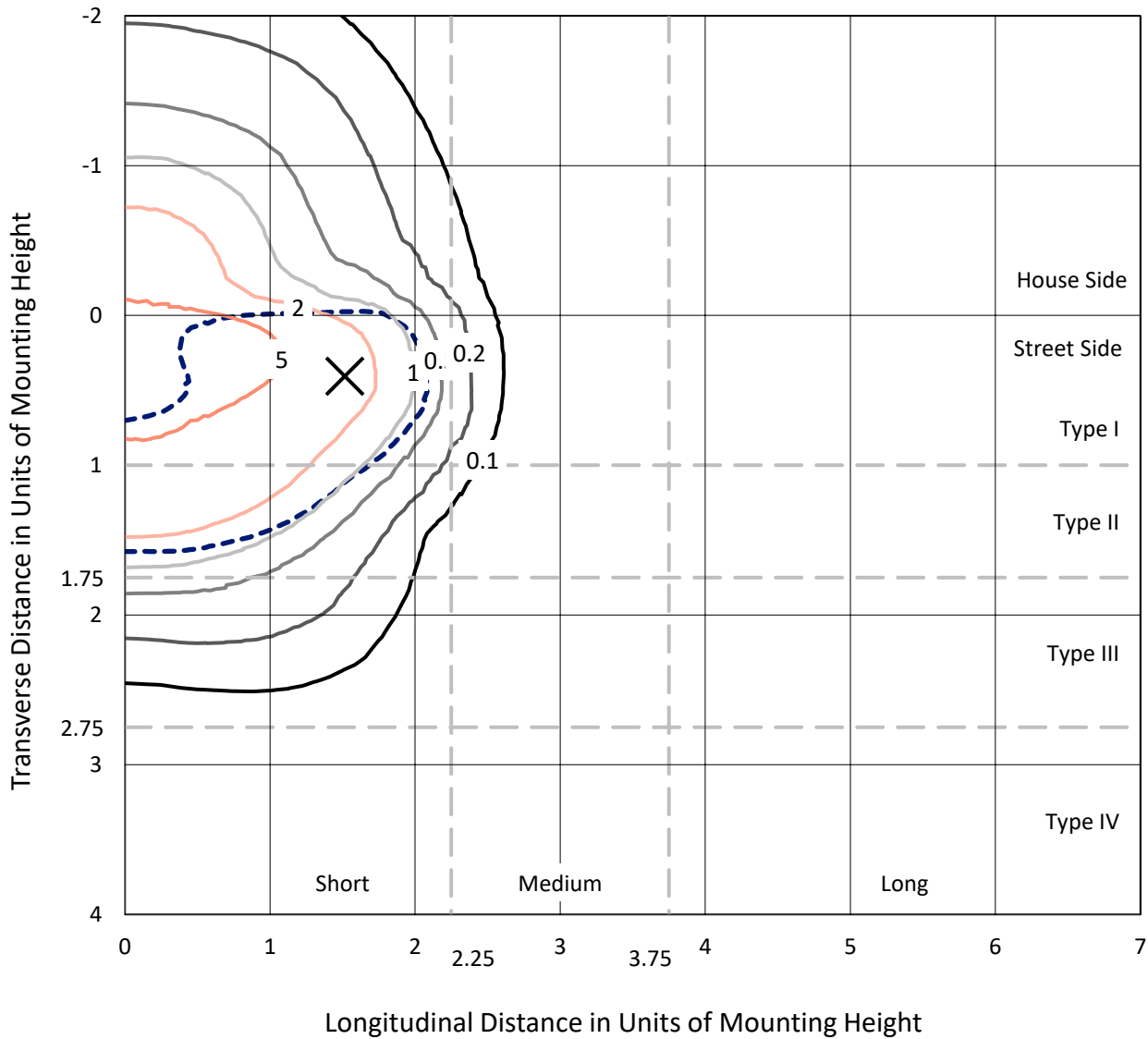
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

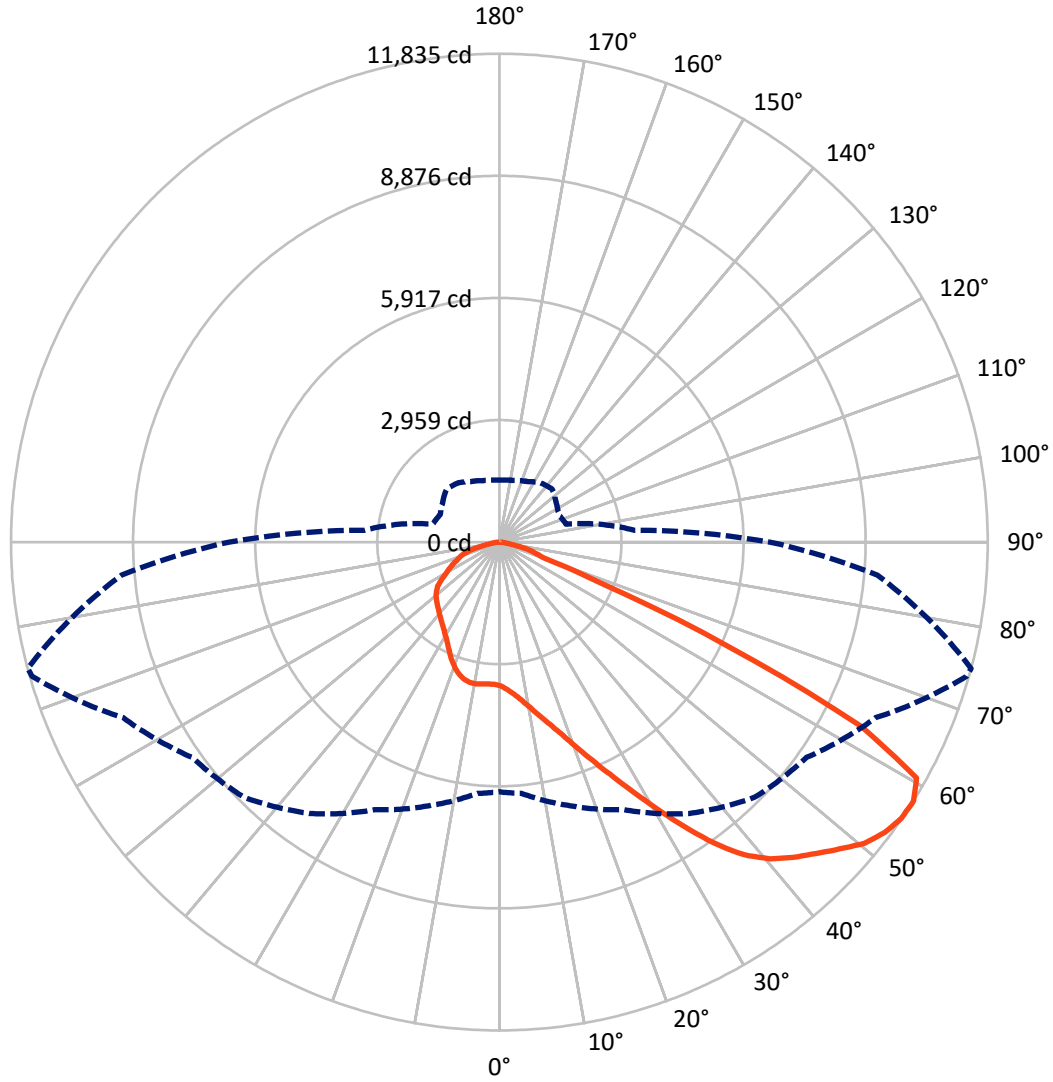
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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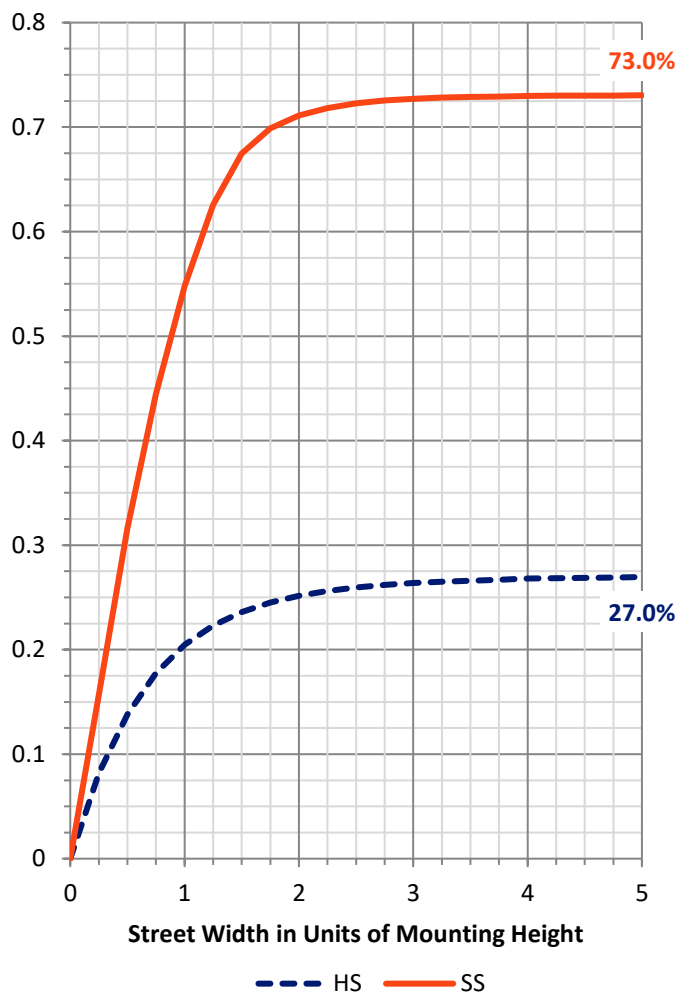
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5029.5	0.0	5029.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	13562.5	0.0	13562.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	18592.0	0.0	18592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	1.9
10°-20°	1109.3	6.0
20°-30°	1967.3	10.6
30°-40°	3011.7	16.2
40°-50°	4193.5	22.6
50°-60°	4804.9	25.8
60°-70°	2468.9	13.3
70°-80°	621.6	3.3
80°-90°	66.4	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°	18592.0	100.0
0°-180°	18592.0	100.0

Coefficient of Utilization



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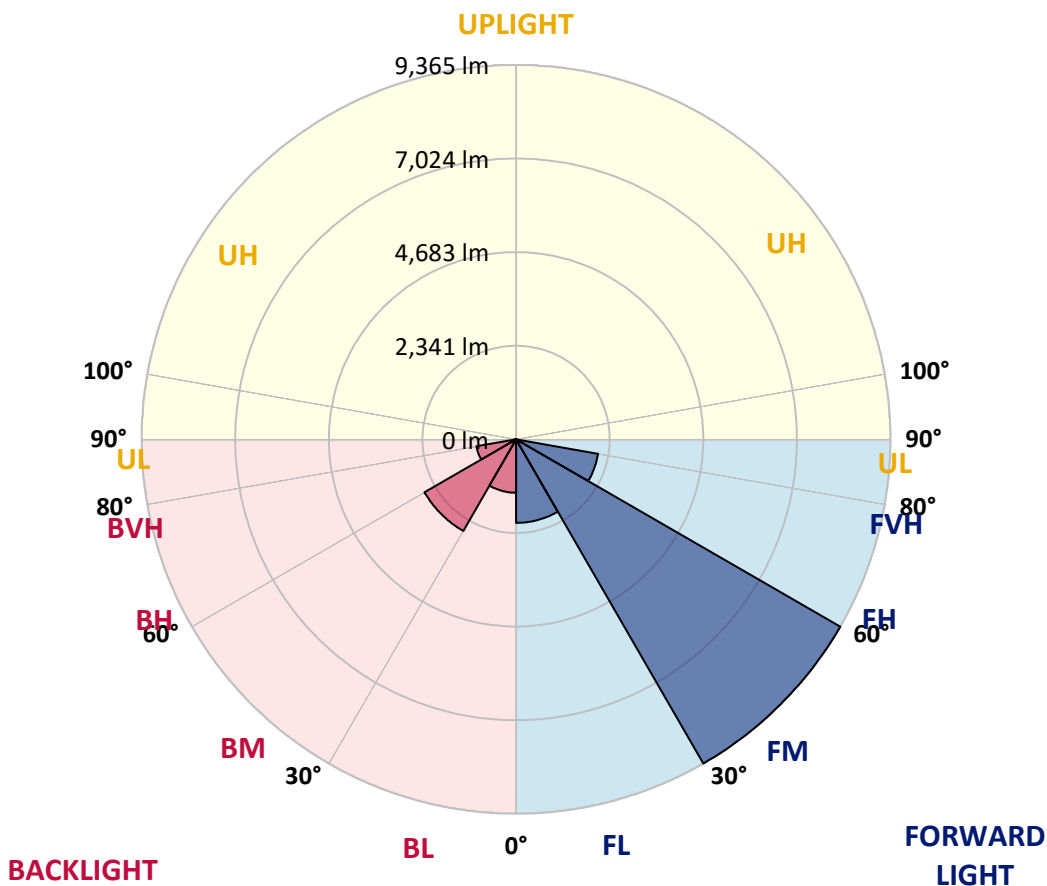
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.9	11.2			
FM (30°-60°)	9365.0	50.4			
FH (60°-80°)	2084.0	11.2			G2/5000
FVH (80°-90°)	24.6	0.1			G1/100
BL (0°-30°)	1336.2	7.2	B3/2500		
BM (30°-60°)	2645.1	14.2	B3/5000		
BH (60°-80°)	1006.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	41.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8
2.5°	3740.8	3750.4	3740.8	3756.8	3724.8	3710.4	3675.3	3622.5	3581.0	3574.6	3528.2
5°	4031.8	4052.5	4039.8	4033.4	3990.2	3958.2	3905.5	3800.0	3713.6	3700.8	3609.7
7.5°	4218.8	4233.2	4233.2	4238.0	4222.0	4185.2	4129.3	4004.6	3883.1	3863.9	3726.4
10°	4281.2	4292.3	4313.1	4353.1	4385.1	4396.3	4359.5	4239.6	4090.9	4071.7	3879.9
12.5°	4295.5	4308.3	4340.3	4413.8	4501.8	4581.7	4588.1	4500.2	4333.9	4313.1	4057.3
15°	4322.7	4335.5	4378.7	4469.8	4599.3	4752.8	4847.1	4786.3	4602.5	4580.1	4258.8
17.5°	4319.5	4333.9	4397.9	4519.4	4693.6	4915.8	5098.1	5123.6	4933.4	4895.0	4487.4
20°	4311.5	4324.3	4393.1	4541.7	4757.5	5062.9	5392.2	5524.9	5320.3	5285.1	4754.4
22.5°	4375.5	4389.9	4442.6	4565.7	4791.1	5176.4	5664.0	5983.7	5779.1	5729.5	5061.3
25°	4519.4	4540.1	4572.1	4656.8	4851.9	5277.1	5942.1	6503.3	6293.8	6234.7	5395.4
27.5°	4741.6	4767.1	4811.9	4851.9	4987.8	5405.0	6218.7	7085.2	6875.7	6813.4	5748.7
30°	5013.3	5046.9	5104.5	5131.6	5224.4	5593.6	6519.2	7684.7	7563.2	7476.8	6146.8
32.5°	5389.0	5435.4	5489.7	5497.7	5553.7	5879.8	6816.6	8279.4	8277.8	8217.0	6599.2
35°	5878.2	5927.8	5938.9	5950.1	5977.3	6273.1	7176.3	8821.3	9030.7	8960.4	7091.6
37.5°	6412.1	6484.1	6501.7	6452.1	6490.5	6746.3	7580.7	9256.1	9686.2	9611.0	7568.0
40°	6982.9	7011.6	7059.6	6981.3	7029.2	7288.2	7977.2	9534.3	10175.3	10095.4	7943.6
42.5°	7392.1	7444.9	7516.8	7488.0	7515.2	7751.8	8255.4	9668.6	10523.8	10443.9	8213.8
45°	7836.5	7852.5	7898.9	7892.5	7908.5	8129.1	8455.2	9727.7	10835.6	10763.6	8444.0
47.5°	8223.4	8247.4	8277.8	8242.6	8207.4	8351.3	8618.3	9778.9	11195.3	11108.9	8685.4
50°	8595.9	8616.7	8653.4	8551.1	8420.0	8456.8	8698.2	9849.2	11532.6	11471.8	8875.6
52.5°	8664.6	8687.0	8859.7	8880.4	8712.6	8583.1	8838.9	10004.3	11730.8	11692.4	8944.4
55°	7799.8	7839.7	8183.4	8578.3	8992.3	8950.8	9064.3	10085.8	11809.1	11818.7	9067.5
57.5°	6054.0	6111.6	6613.6	7155.5	8026.8	8747.8	9093.1	10065.0	11782.0	11834.7	9193.8
60°	3971.0	4004.6	4599.3	5206.8	6110.0	7107.5	8138.7	9690.9	11540.6	11615.7	9161.8
62.5°	2398.0	2436.3	2914.3	3374.7	3907.1	4573.7	5520.1	7788.6	9673.4	9841.2	7337.8
65°	1673.8	1724.9	2143.8	2522.7	2706.5	2569.0	2796.0	4349.9	6026.9	6097.2	4484.2
67.5°	1213.4	1248.5	1592.2	2043.1	2246.1	1814.5	1382.8	1926.4	2625.0	2650.5	1849.6
70°	794.5	834.5	1146.2	1555.5	1833.6	1470.7	1034.3	1042.3	1104.7	1117.4	1074.3
72.5°	436.4	460.4	708.2	1032.7	1083.9	879.3	807.3	866.5	909.6	909.6	920.8
75°	225.4	246.2	289.4	340.5	410.9	481.2	581.9	669.8	716.2	719.4	714.6
77.5°	115.1	123.1	155.1	167.9	183.8	214.2	278.2	356.5	398.1	414.0	410.9
80°	54.4	57.6	65.5	76.7	94.3	119.9	150.3	179.0	204.6	207.8	225.4
82.5°	28.8	32.0	35.2	41.6	51.2	63.9	87.9	105.5	121.5	124.7	139.1
85°	11.2	12.8	14.4	16.0	22.4	27.2	36.8	49.6	60.7	60.7	71.9
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.4	8.0	11.2	11.2	19.2
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°	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8	3481.8
2.5°	3517.0	3470.6	3449.9	3416.3	3389.1	3358.7	3334.8	3317.2	3306.0	3299.6	3293.2
5°	3574.6	3504.2	3448.3	3381.1	3334.8	3290.0	3253.2	3227.7	3214.9	3205.3	3198.9
7.5°	3664.1	3569.8	3464.3	3360.3	3278.8	3206.9	3160.5	3133.3	3115.7	3109.4	3104.6
10°	3787.2	3656.1	3481.8	3317.2	3195.7	3117.3	3085.4	3072.6	3074.2	3071.0	3069.4
12.5°	3926.3	3747.2	3477.0	3240.4	3106.2	3059.8	3061.4	3082.2	3106.2	3112.5	3114.1
15°	4076.5	3836.7	3430.7	3141.3	3035.8	3040.6	3082.2	3131.7	3176.5	3194.1	3197.3
17.5°	4239.6	3911.9	3346.0	3032.6	2978.3	3029.4	3106.2	3187.7	3253.2	3282.0	3290.0
20°	4421.8	3975.8	3226.1	2925.5	2923.9	3008.6	3120.5	3227.7	3310.8	3349.1	3355.5
22.5°	4615.3	4015.8	3079.0	2826.4	2868.0	2981.5	3109.4	3221.3	3309.2	3347.5	3355.5
25°	4810.3	4028.6	2917.5	2735.3	2810.4	2938.3	3055.0	3144.5	3227.7	3261.2	3267.6
27.5°	4992.5	3991.8	2764.0	2656.9	2757.7	2874.4	2952.7	3000.6	3058.2	3083.8	3088.6
30°	5178.0	3918.3	2634.6	2594.6	2698.5	2786.4	2821.6	2824.8	2847.2	2847.2	2850.4
32.5°	5365.0	3809.6	2521.1	2533.8	2625.0	2682.5	2687.3	2650.5	2623.4	2578.6	2577.0
35°	5580.8	3699.3	2428.3	2465.1	2538.6	2573.8	2559.4	2489.1	2423.5	2350.0	2346.8
37.5°	5780.7	3585.7	2350.0	2394.8	2441.1	2466.7	2433.1	2348.4	2294.0	2218.9	2207.7
40°	5945.3	3483.4	2274.9	2321.2	2343.6	2366.0	2311.6	2242.9	2250.9	2209.3	2207.7
42.5°	6041.3	3384.3	2204.5	2239.7	2254.1	2270.1	2222.1	2171.0	2214.1	2182.1	2183.7
45°	6111.6	3298.0	2140.6	2153.4	2188.5	2212.5	2167.8	2110.2	2119.8	1996.7	1967.9
47.5°	6191.5	3250.0	2079.8	2067.0	2129.4	2171.0	2102.2	2019.1	1961.5	1840.0	1828.8
50°	6276.3	3232.4	2015.9	1980.7	2055.8	2095.8	2015.9	1912.0	1836.8	1771.3	1764.9
52.5°	6305.0	3230.8	1936.0	1876.8	1951.9	2007.9	1940.7	1835.2	1745.7	1681.8	1678.6
55°	6418.5	3277.2	1833.6	1734.5	1804.9	1920.0	1870.4	1718.5	1646.6	1617.8	1614.6
57.5°	6551.2	3285.2	1672.2	1579.5	1677.0	1812.9	1750.5	1619.4	1541.1	1505.9	1502.7
60°	6496.9	3088.6	1499.5	1461.2	1568.3	1712.1	1654.6	1541.1	1450.0	1416.4	1413.2
62.5°	4951.0	2180.5	1373.2	1358.8	1451.6	1566.7	1555.5	1437.2	1350.8	1326.9	1323.7
65°	2978.3	1531.5	1251.7	1250.1	1315.7	1426.0	1440.4	1344.5	1253.3	1219.8	1219.8
67.5°	1472.3	1171.8	1114.3	1106.3	1147.8	1226.2	1286.9	1208.6	1131.8	1099.9	1095.1
70°	1040.7	1032.7	1013.5	991.2	999.1	1031.1	1056.7	991.2	909.6	877.7	871.3
72.5°	900.0	901.6	888.8	871.3	864.9	842.5	820.1	772.1	722.6	689.0	692.2
75°	698.6	701.8	709.8	703.4	685.8	661.8	637.9	577.1	537.1	505.2	498.8
77.5°	407.7	423.6	449.2	442.8	446.0	412.4	402.9	343.7	306.9	284.6	279.8
80°	230.2	239.8	251.0	259.0	249.4	235.0	214.2	182.2	171.1	155.1	151.9
82.5°	139.1	148.7	153.5	159.9	156.7	137.5	121.5	100.7	91.1	83.1	81.5
85°	70.3	76.7	81.5	84.7	75.1	62.3	56.0	44.8	38.4	33.6	33.6
87.5°	17.6	19.2	22.4	19.2	17.6	8.0	6.4	1.6	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)