

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: P637841

Luminaire Tested: GWS-SA4D-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21962.3 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

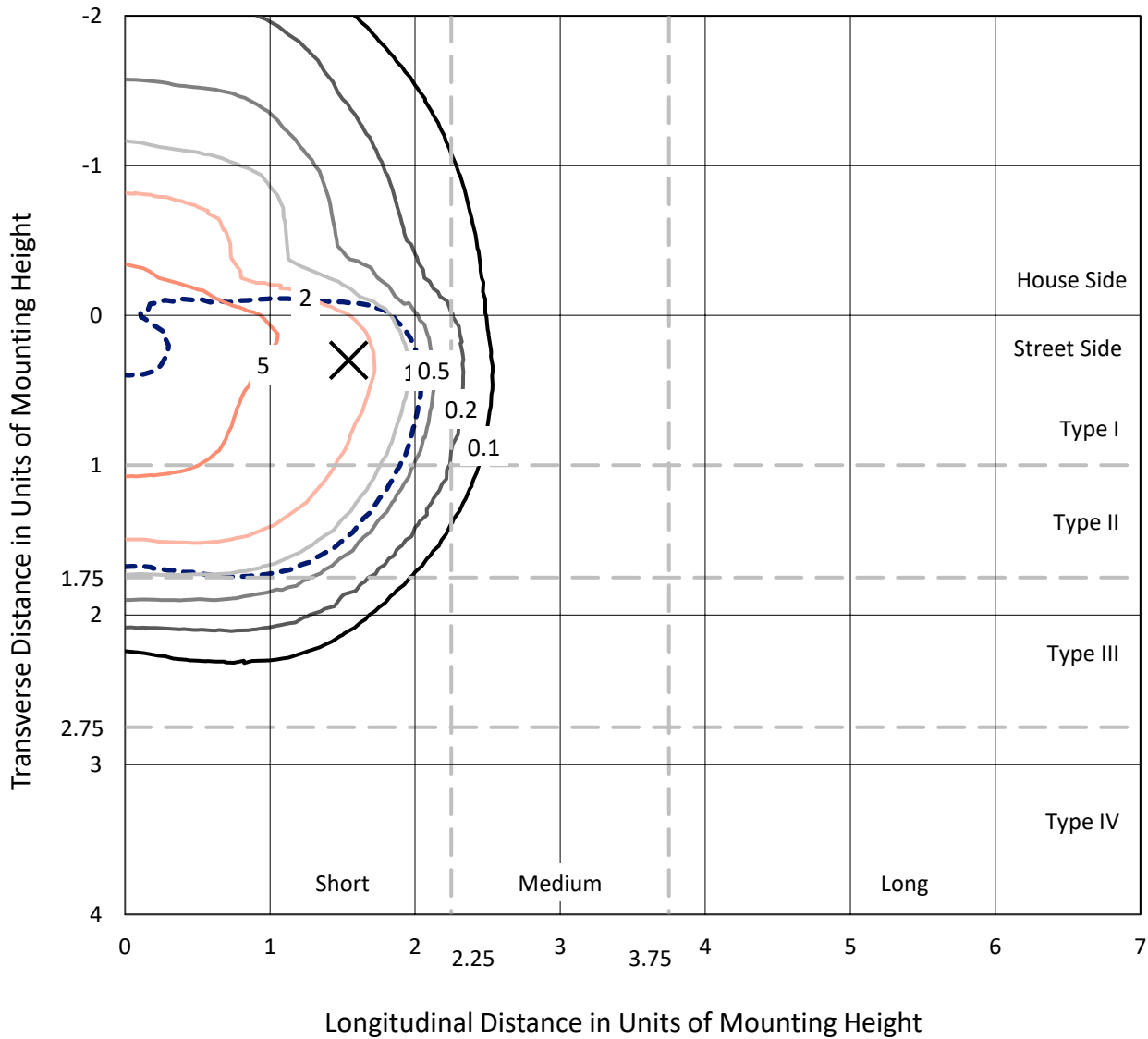
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637841
 CATALOG NUMBER: GWS-SA4D-750-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

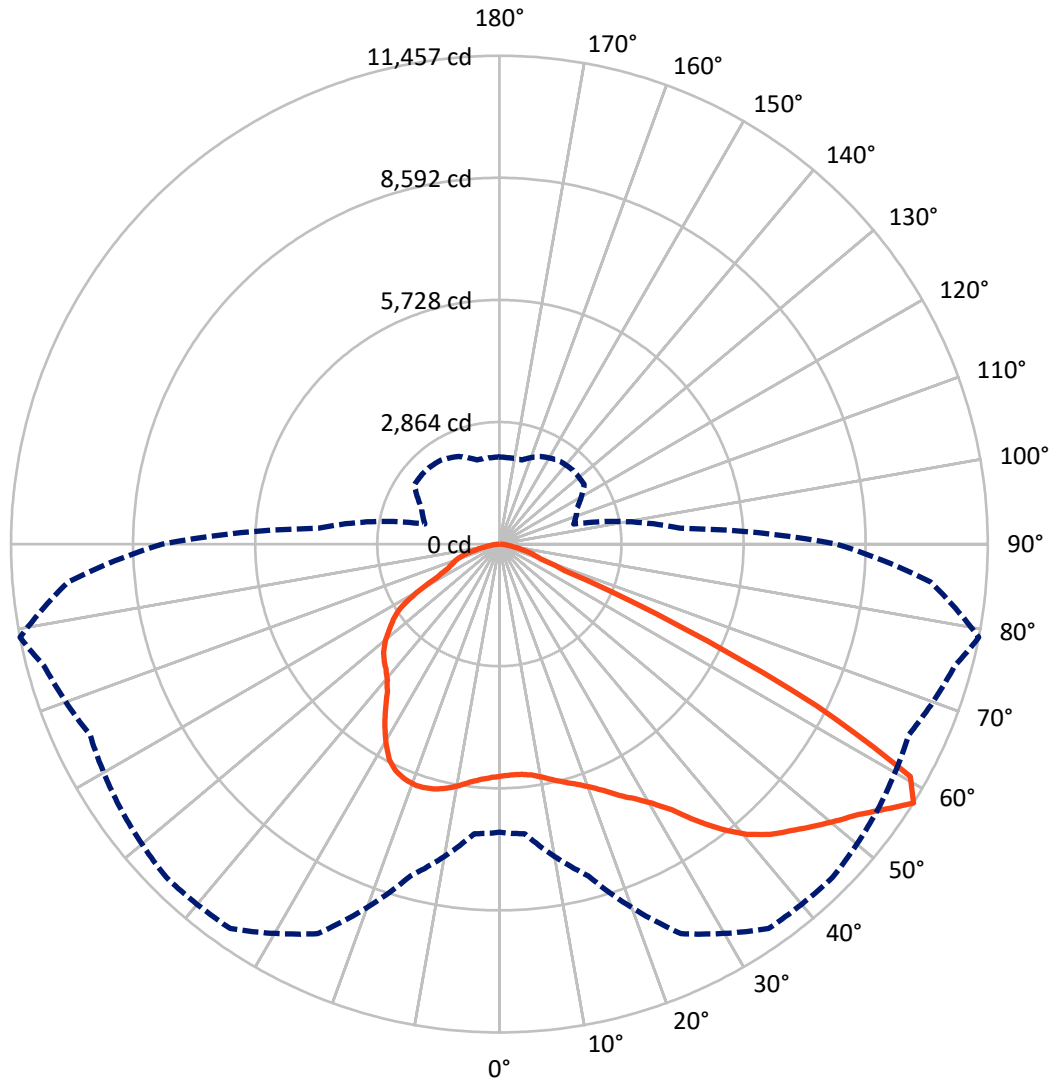
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

REPORT NUMBER: P637841
CATALOG NUMBER: GWS-SA4D-750-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637841

CATALOG NUMBER: GWS-SA4D-750-U-T3R-W-GRSWH

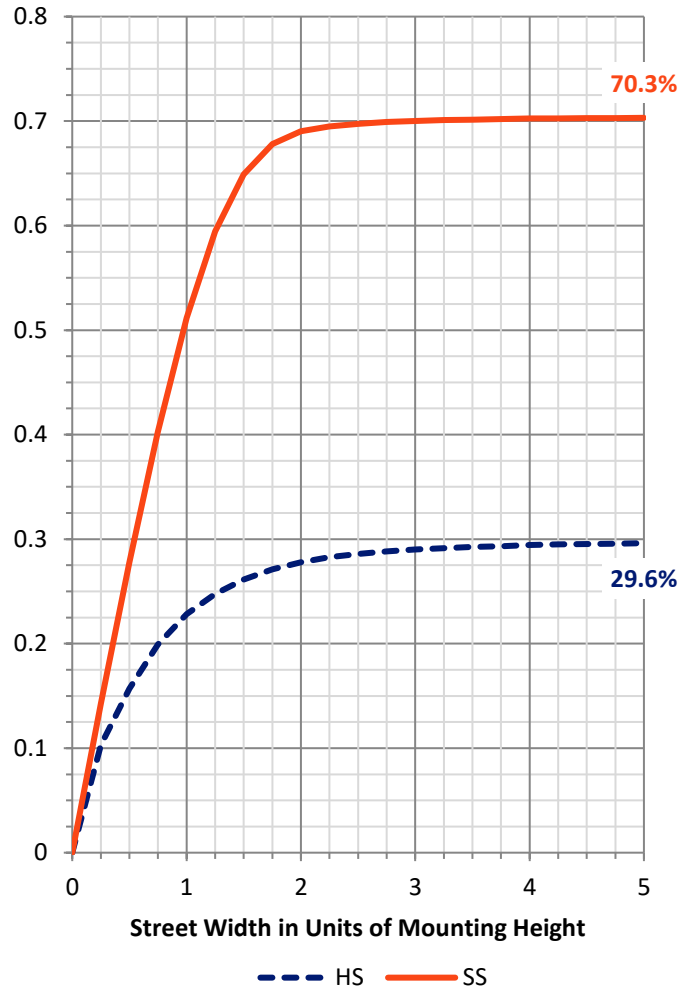
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6528.4	0.0	6528.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	15433.9	0.0	15433.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	21962.3	0.0	21962.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	2.3
10°-20°	1400.7	6.4
20°-30°	2374.3	10.8
30°-40°	3634.2	16.5
40°-50°	4845.9	22.1
50°-60°	5596.6	25.5
60°-70°	2908.2	13.2
70°-80°	618.2	2.8
80°-90°	80.1	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°	21962.3	100.0
0°-180°	21962.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637841

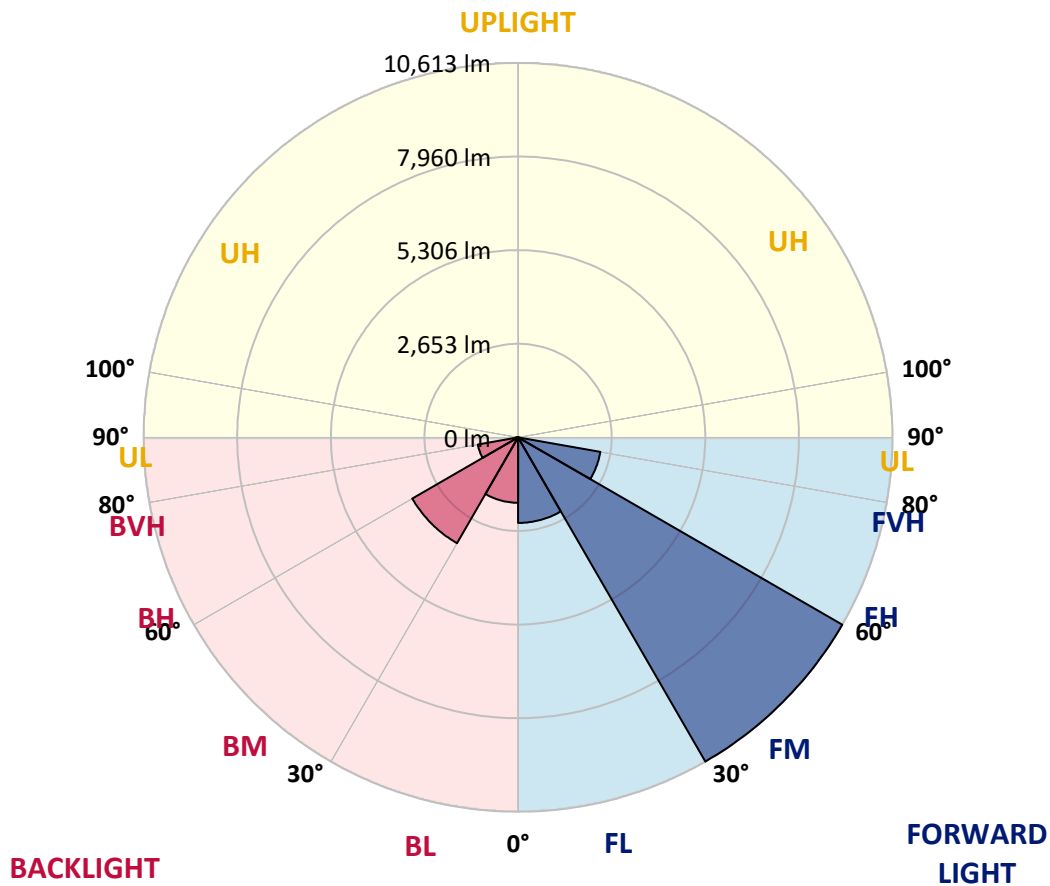
CATALOG NUMBER: GWS-SA4D-750-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2425.1	11.0			
FM (30°-60°)	10612.8	48.3			
FH (60°-80°)	2368.1	10.8			G2/5000
FVH (80°-90°)	27.9	0.1			G1/100
BL (0°-30°)	1854.0	8.4	B3/2500		
BM (30°-60°)	3463.9	15.8	B3/5000		
BH (60°-80°)	1158.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	52.2	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





REPORT NUMBER: P637841

CATALOG NUMBER: GWS-SA4D-750-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8
2.5°	5195.0	5184.2	5187.8	5202.1	5256.0	5295.5	5336.8	5374.5	5410.4	5421.2	5430.2
5°	5010.0	4990.2	4995.6	5019.0	5081.8	5148.3	5221.9	5311.7	5397.9	5426.6	5464.3
7.5°	4878.9	4875.3	4884.3	4920.2	4986.7	5049.5	5144.7	5272.2	5421.2	5469.7	5536.1
10°	4704.7	4697.6	4733.5	4807.1	4916.6	5017.2	5130.3	5281.2	5489.5	5561.3	5663.6
12.5°	4566.5	4562.9	4600.6	4702.9	4843.0	5002.8	5159.0	5327.8	5581.0	5679.8	5805.5
15°	4647.3	4631.1	4632.9	4704.7	4830.4	5019.0	5230.9	5412.2	5672.6	5798.3	5959.9
17.5°	4882.5	4853.8	4832.2	4844.8	4916.6	5112.4	5340.4	5525.4	5778.6	5925.8	6123.3
20°	5207.5	5191.4	5132.1	5092.6	5108.8	5281.2	5512.8	5685.2	5916.8	6082.0	6293.9
22.5°	5643.9	5604.4	5523.6	5460.7	5412.2	5546.9	5760.6	5909.6	6109.0	6281.4	6502.2
25°	6184.4	6126.9	5999.4	5900.7	5796.5	5934.8	6125.1	6238.3	6372.9	6532.8	6742.9
27.5°	6735.7	6687.2	6545.3	6412.4	6283.2	6369.3	6595.6	6660.3	6645.9	6762.6	6942.2
30°	7322.9	7261.8	7127.1	6983.5	6816.5	6872.1	7075.1	7107.4	6954.7	7051.7	7173.8
32.5°	7942.4	7883.1	7766.4	7599.4	7410.9	7432.4	7488.1	7518.6	7373.1	7428.8	7522.2
35°	8572.7	8517.0	8398.5	8233.3	8095.0	7963.9	7823.9	7946.0	7861.6	7969.3	7962.1
37.5°	9149.1	9093.4	9019.8	8892.3	8655.3	8396.7	8073.5	8224.3	8355.4	8491.9	8468.5
40°	9538.8	9501.0	9519.0	9499.3	9194.0	8682.2	8195.6	8360.8	8718.1	8951.6	8939.0
42.5°	9874.6	9836.8	9941.0	10016.4	9657.3	8946.2	8254.8	8412.9	8949.8	9314.3	9296.3
45°	10023.6	10012.8	10185.2	10424.0	10081.1	9226.3	8407.5	8520.6	9125.7	9592.6	9524.4
47.5°	9845.8	9883.5	10222.9	10627.0	10433.0	9558.5	8719.9	8748.6	9355.6	9894.3	9702.2
50°	9492.1	9574.7	10032.6	10632.3	10689.8	9933.8	9152.7	9080.9	9664.5	10215.7	9795.5
52.5°	8976.7	9062.9	9809.9	10591.0	10837.0	10368.4	9729.1	9626.7	10054.1	10537.2	9811.7
55°	7793.3	7910.1	9299.9	10497.7	10980.7	10763.4	10379.1	10170.8	10556.9	10978.9	9971.5
57.5°	6760.8	6821.9	8057.3	10082.9	11009.4	11054.3	10842.4	10594.6	11056.1	11456.6	10151.1
60°	4961.5	4975.9	6087.4	8342.8	10127.7	10885.5	10804.7	10436.6	10819.1	11074.1	9328.7
62.5°	2803.1	2804.9	3692.0	5568.5	7565.3	8872.6	8922.8	8597.8	8276.4	8351.8	6493.3
65°	1052.3	1151.0	1686.2	2736.6	4361.8	5238.1	5446.4	5521.8	4986.7	4654.5	3481.9
67.5°	703.9	727.3	984.0	1407.8	1941.2	2241.0	2506.8	2514.0	1838.8	1639.5	1371.9
70°	536.9	560.3	773.9	1007.4	984.0	908.6	982.2	955.3	987.6	1014.6	1043.3
72.5°	400.4	423.8	599.8	711.1	590.8	581.8	659.0	732.6	800.9	829.6	874.5
75°	265.8	283.7	404.0	380.7	326.8	386.1	481.2	554.9	594.4	628.5	662.6
77.5°	168.8	181.4	215.5	174.2	181.4	226.3	280.1	346.6	384.3	418.4	436.4
80°	77.2	75.4	73.6	82.6	102.4	132.9	168.8	208.3	237.0	251.4	262.2
82.5°	30.5	34.1	37.7	44.9	55.7	71.8	95.2	122.1	145.5	149.0	158.0
85°	12.6	14.4	16.2	19.8	25.1	32.3	39.5	55.7	70.0	75.4	80.8
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	5.4	9.0	16.2	18.0	19.8
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: P637841

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8	5442.8
2.5°	5478.7	5455.3	5494.8	5521.8	5546.9	5520.0	5511.0	5487.7	5484.1	5484.1	5496.6
5°	5529.0	5512.8	5554.1	5570.3	5568.5	5509.2	5473.3	5426.6	5403.3	5403.3	5406.9
7.5°	5618.7	5609.8	5633.1	5608.0	5550.5	5430.2	5311.7	5212.9	5146.5	5112.4	5123.1
10°	5767.8	5757.0	5737.3	5643.9	5478.7	5229.1	4986.7	4807.1	4699.3	4638.3	4641.9
12.5°	5913.2	5895.3	5825.2	5618.7	5279.4	4882.5	4564.7	4363.6	4245.0	4173.2	4157.0
15°	6073.1	6026.4	5875.5	5489.5	4954.3	4458.7	4126.5	3909.2	3781.7	3738.6	3736.9
17.5°	6225.7	6143.1	5870.1	5259.6	4564.7	4015.2	3681.2	3546.5	3525.0	3544.7	3550.1
20°	6380.1	6247.2	5810.9	4941.8	4101.4	3573.4	3401.1	3456.7	3537.5	3591.4	3604.0
22.5°	6539.9	6333.4	5676.2	4532.3	3612.9	3275.4	3347.2	3469.3	3569.9	3641.7	3648.9
25°	6719.5	6414.2	5475.1	4031.3	3221.5	3192.8	3334.6	3463.9	3571.6	3654.2	3668.6
27.5°	6821.9	6416.0	5193.2	3516.0	3041.9	3160.4	3304.1	3426.2	3533.9	3623.7	3639.9
30°	6922.4	6367.6	4746.0	3097.6	2989.8	3122.7	3252.0	3365.1	3467.5	3555.5	3575.2
32.5°	7064.3	6322.7	4230.7	2857.0	2959.3	3086.8	3192.8	3293.3	3372.3	3411.8	3422.6
35°	7240.3	6265.2	3683.0	2752.8	2939.6	3058.1	3151.5	3205.3	3103.0	3081.4	3104.8
37.5°	7486.3	6211.3	3137.1	2707.9	2927.0	3047.3	3129.9	2991.6	2865.9	2815.7	2833.6
40°	7752.0	6180.8	2767.2	2672.0	2932.4	3058.1	3040.1	2835.4	2654.0	2548.1	2544.5
42.5°	7978.3	6134.1	2530.1	2648.7	2946.7	3099.4	2918.0	2697.1	2427.8	2364.9	2366.7
45°	8130.9	6015.6	2404.4	2623.5	2959.3	3108.4	2860.5	2506.8	2314.7	2275.2	2273.4
47.5°	8193.8	5800.1	2323.6	2584.0	2957.5	3034.7	2743.8	2427.8	2235.6	2224.9	2232.1
50°	8152.5	5446.4	2241.0	2506.8	2914.4	2957.5	2609.2	2357.8	2181.8	2241.0	2284.1
52.5°	7999.8	4988.5	2142.3	2400.9	2837.2	2869.5	2540.9	2314.7	2142.3	2221.3	2255.4
55°	7960.3	4616.7	2016.6	2262.6	2722.3	2713.3	2469.1	2293.1	2115.3	2084.8	2090.2
57.5°	7908.3	4254.0	1808.3	2014.8	2431.4	2445.7	2400.9	2268.0	2045.3	2036.3	2045.3
60°	6870.3	3261.0	1612.5	1738.2	1996.8	2074.0	2323.6	2221.3	1932.2	1894.5	1892.7
62.5°	4487.5	1975.3	1434.8	1515.6	1626.9	1716.7	2118.9	2086.6	1808.3	1784.9	1801.1
65°	2413.4	1407.8	1305.5	1354.0	1415.0	1483.2	1756.2	1858.5	1634.1	1551.5	1553.3
67.5°	1233.6	1197.7	1208.5	1242.6	1289.3	1323.4	1416.8	1506.6	1393.5	1323.4	1321.6
70°	1055.9	1084.6	1100.8	1120.5	1151.0	1145.7	1154.6	1170.8	1161.8	1127.7	1125.9
72.5°	899.6	944.5	948.1	951.7	962.5	937.4	921.2	894.3	896.1	901.4	903.2
75°	684.2	727.3	738.0	732.6	743.4	711.1	689.5	662.6	630.3	624.9	628.5
77.5°	445.3	479.5	495.6	492.0	497.4	472.3	461.5	432.8	395.1	380.7	380.7
80°	269.4	289.1	301.7	305.3	310.7	292.7	274.7	249.6	233.4	217.3	217.3
82.5°	163.4	176.0	185.0	185.0	190.3	170.6	156.2	138.3	131.1	116.7	116.7
85°	82.6	91.6	95.2	93.4	89.8	73.6	68.2	59.3	55.7	48.5	48.5
87.5°	19.8	25.1	25.1	18.0	18.0	9.0	5.4	1.8	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)