

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: P638386

Luminaire Tested: GWS-SA4E-760-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19065.6 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

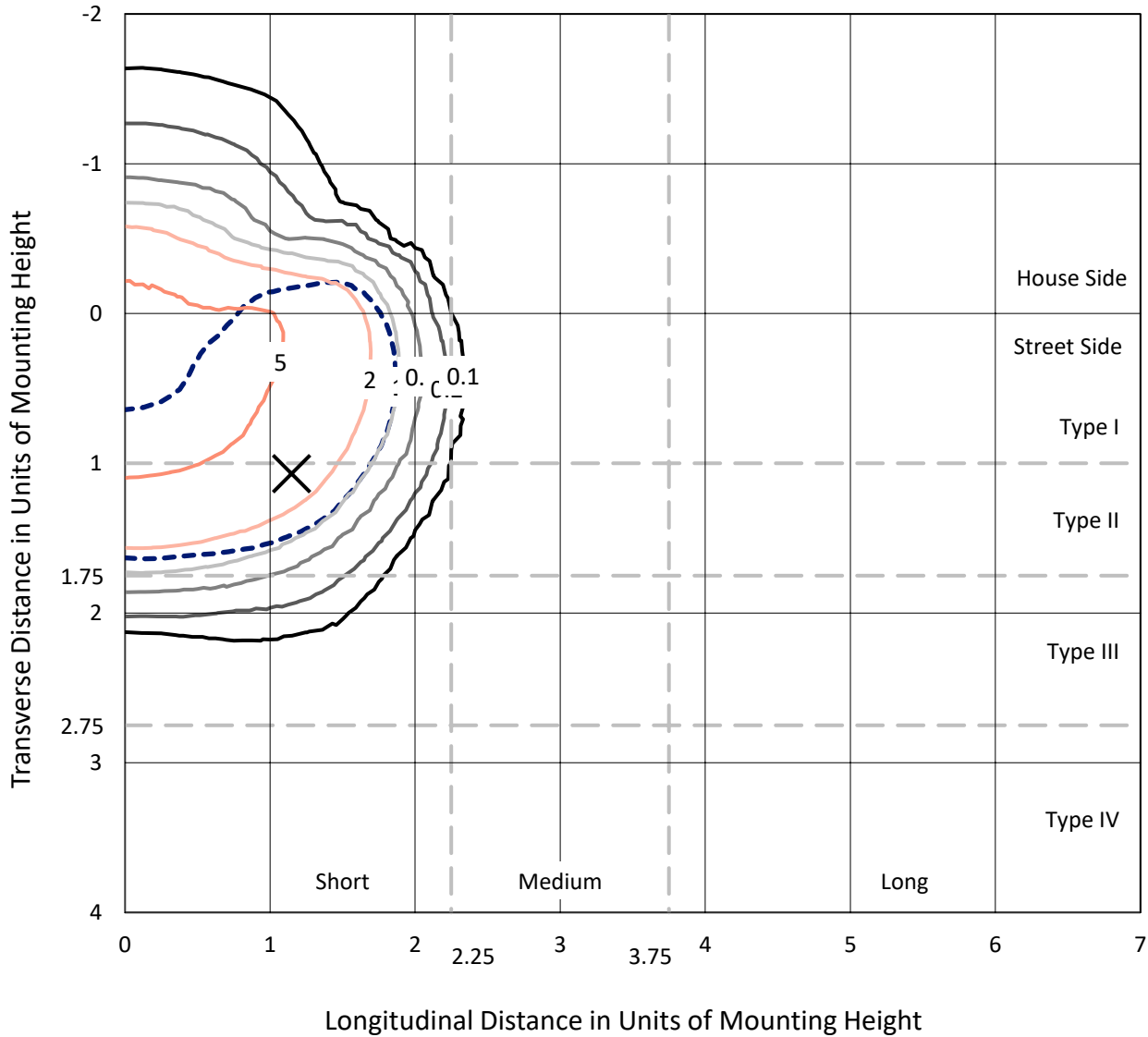
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

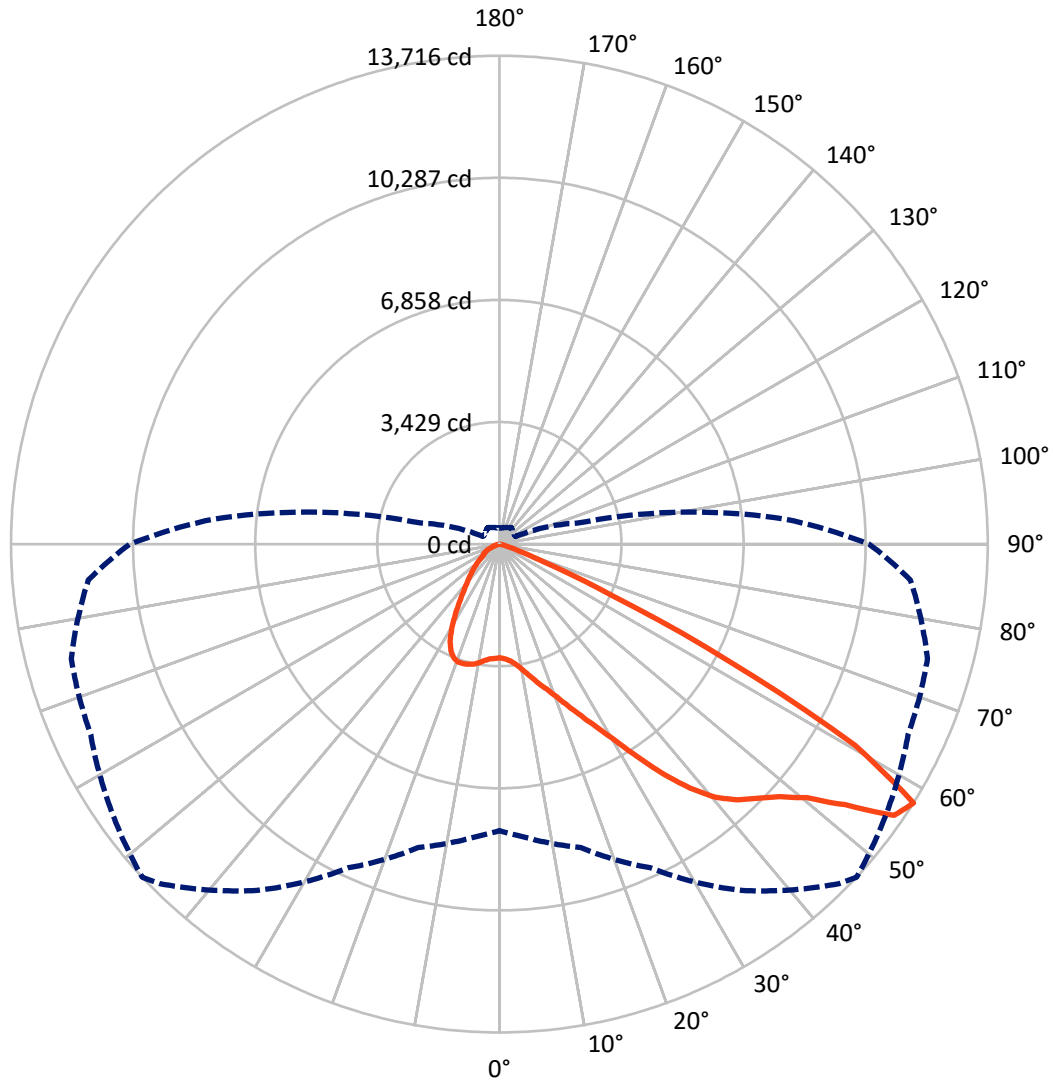
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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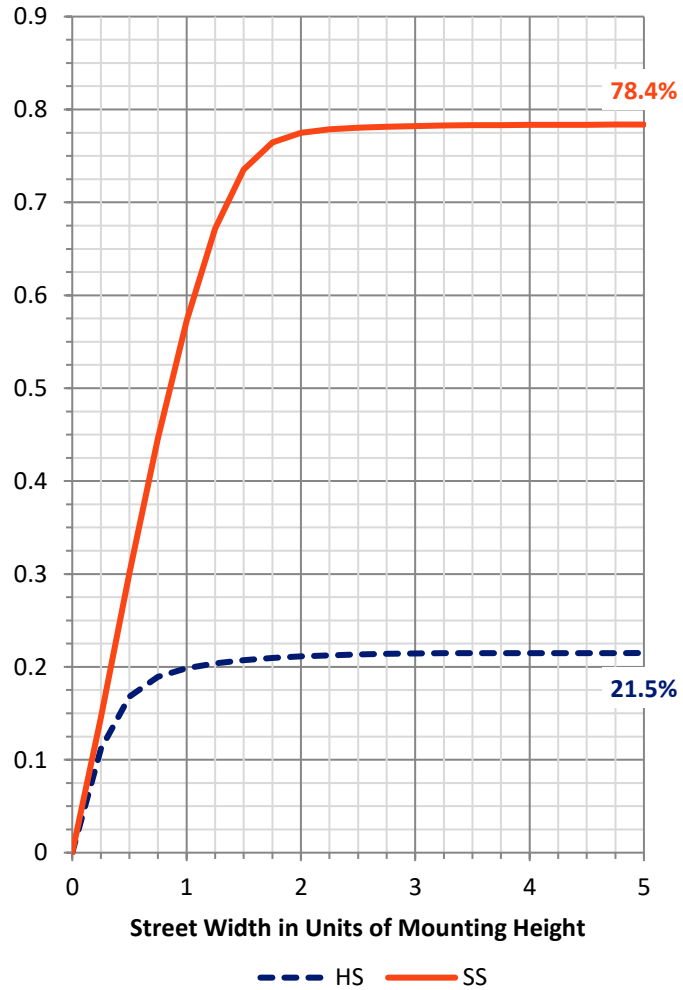
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4136.3	0.0	4136.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14929.3	0.0	14929.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	19065.6	0.0	19065.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	1.7
10°-20°	1071.4	5.6
20°-30°	1989.4	10.4
30°-40°	3184.6	16.7
40°-50°	4655.1	24.4
50°-60°	5745.3	30.1
60°-70°	1919.7	10.1
70°-80°	178.9	0.9
80°-90°	3.7	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°	19065.6	100.0
0°-180°	19065.6	100.0

Coefficient of Utilization



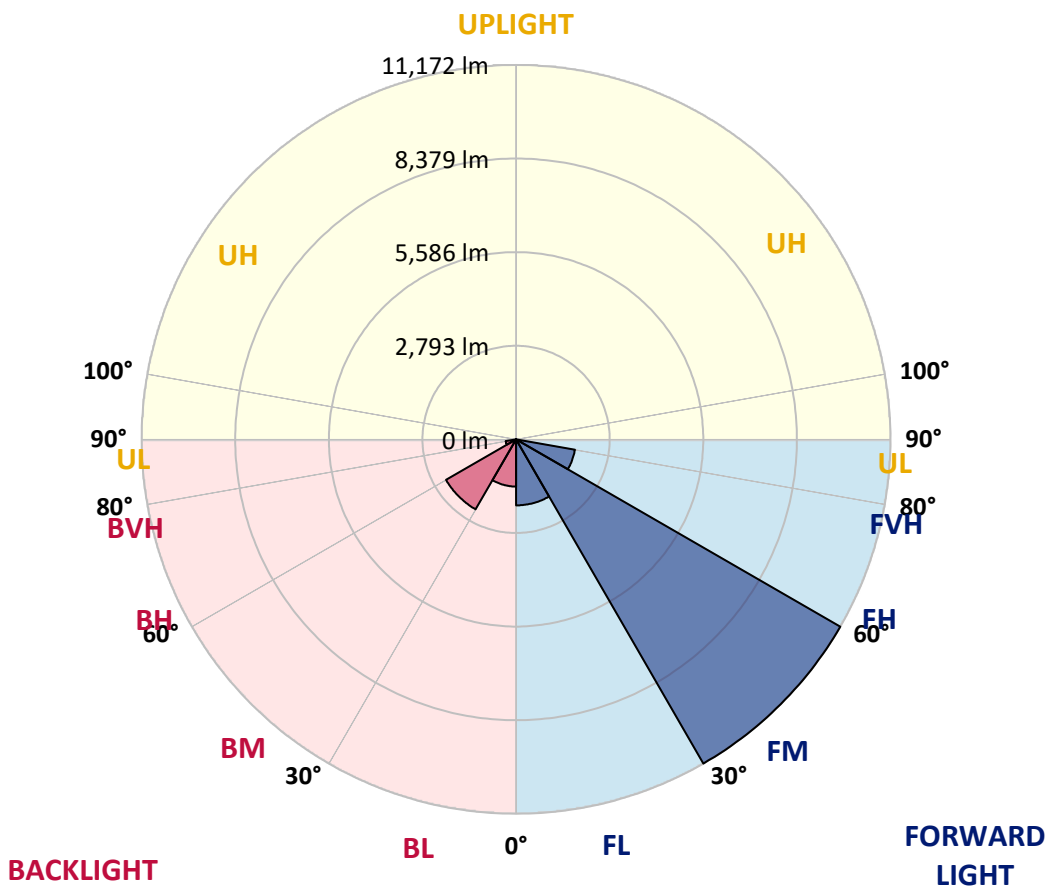
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.4	10.3			
FM (30°-60°)	11172.3	58.6			
FH (60°-80°)	1784.1	9.4			G1/1800
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1407.9	7.4	B3/2500		
BM (30°-60°)	2412.7	12.7	B2/2500		
BH (60°-80°)	314.5	1.6	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6
2.5°	3224.8	3222.6	3220.4	3233.7	3229.2	3227.0	3231.4	3231.4	3231.4	3218.2	3191.6
5°	3302.3	3302.3	3300.1	3313.3	3302.3	3295.6	3297.8	3297.8	3289.0	3264.6	3231.4
7.5°	3424.0	3419.6	3415.1	3428.4	3417.4	3415.1	3419.6	3406.3	3390.8	3351.0	3304.5
10°	3598.9	3598.9	3592.2	3605.5	3596.6	3592.2	3592.2	3583.4	3554.6	3492.6	3424.0
12.5°	3840.1	3829.0	3813.5	3802.5	3798.1	3795.8	3798.1	3784.8	3753.8	3674.1	3578.9
15°	4103.5	4094.6	4070.3	4052.6	4028.2	4023.8	4037.1	4026.0	3995.0	3886.6	3751.6
17.5°	4435.5	4446.6	4384.6	4347.0	4276.1	4271.7	4276.1	4293.8	4271.7	4132.3	3935.3
20°	4718.8	4727.6	4681.2	4654.6	4590.4	4561.6	4570.5	4599.3	4574.9	4411.1	4136.7
22.5°	5022.0	5033.1	4984.4	4929.1	4900.3	4900.3	4933.5	4973.3	4940.1	4725.4	4366.9
25°	5385.0	5393.9	5354.0	5281.0	5230.1	5294.3	5342.9	5449.2	5393.9	5101.7	4639.1
27.5°	5801.1	5803.3	5745.8	5670.5	5644.0	5763.5	5812.2	5976.0	5953.8	5524.4	4926.8
30°	6246.0	6248.2	6234.9	6184.0	6159.7	6316.8	6383.2	6620.0	6604.5	6049.0	5318.6
32.5°	6708.6	6708.6	6732.9	6728.5	6757.3	7014.0	7120.2	7390.3	7374.8	6690.9	5805.5
35°	7173.4	7175.6	7217.6	7323.9	7443.4	7784.2	7923.7	8251.2	8215.8	7458.9	6427.5
37.5°	7702.3	7680.2	7737.8	7897.1	8162.7	8556.7	8689.5	9001.6	8961.7	8244.6	7239.8
40°	8339.8	8299.9	8299.9	8485.9	8786.9	9240.6	9353.5	9508.4	9373.4	8879.8	8036.6
42.5°	9043.6	9006.0	8957.3	9121.1	9373.4	9727.5	9820.5	9778.4	9667.8	9479.6	8944.0
45°	9756.3	9698.8	9732.0	9831.6	9977.6	10145.8	10181.3	9986.5	9935.6	9988.7	9694.3
47.5°	10298.6	10258.7	10340.6	10480.1	10599.6	10623.9	10599.6	10329.5	10325.1	10513.3	10214.5
50°	10480.1	10484.5	10710.2	11015.7	11208.2	11228.2	11195.0	10885.1	10843.0	10898.4	10495.5
52.5°	10497.8	10515.5	10845.2	11427.4	11951.9	12190.9	12164.4	11830.2	11418.5	11358.7	10920.5
55°	10070.6	10174.6	10635.0	11484.9	12600.4	13364.0	13452.5	12812.9	12202.0	12151.1	11834.6
57.5°	8049.8	8262.3	8817.9	10028.5	11876.7	13485.7	13715.9	13255.6	12664.6	12447.7	11588.9
60°	4811.7	5075.1	5608.5	7093.7	9039.2	11084.3	11480.5	11544.7	11272.4	10646.1	8890.9
62.5°	2065.0	2042.9	2700.2	3837.9	5376.1	7045.0	7224.3	7503.1	7740.0	7084.8	5396.1
65°	708.3	770.2	1071.2	1730.8	2691.4	3271.3	3430.6	3680.7	4017.2	3315.5	1976.5
67.5°	438.2	464.8	617.5	1022.6	1451.9	1429.8	1359.0	1319.1	1283.7	878.7	542.3
70°	318.7	340.9	433.8	703.8	976.1	686.1	595.4	482.5	535.6	493.6	385.1
72.5°	214.7	232.4	298.8	427.2	500.2	334.2	309.9	351.9	425.0	405.0	314.3
75°	128.4	139.4	170.4	208.1	203.6	172.6	174.9	247.9	325.4	303.2	223.5
77.5°	88.5	93.0	112.9	135.0	99.6	53.1	48.7	68.6	110.7	110.7	75.3
80°	22.1	28.8	28.8	17.7	15.5	13.3	13.3	19.9	31.0	22.1	11.1
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4	4.4
85°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4
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°	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6	3191.6
2.5°	3207.1	3180.5	3198.2	3193.8	3207.1	3211.5	3191.6	3187.2	3189.4	3162.8	3154.0
5°	3238.1	3207.1	3215.9	3207.1	3222.6	3235.9	3229.2	3238.1	3249.1	3229.2	3220.4
7.5°	3304.5	3273.5	3271.3	3258.0	3280.1	3289.0	3286.8	3311.1	3333.3	3320.0	3306.7
10°	3419.6	3377.5	3373.1	3362.0	3368.7	3375.3	3351.0	3355.4	3375.3	3359.8	3353.2
12.5°	3561.2	3510.3	3499.3	3472.7	3472.7	3439.5	3386.4	3375.3	3390.8	3379.7	3368.7
15°	3713.9	3645.3	3627.6	3581.1	3536.9	3474.9	3419.6	3406.3	3417.4	3404.1	3395.2
17.5°	3884.4	3806.9	3749.4	3667.5	3570.1	3497.0	3435.1	3406.3	3388.6	3362.0	3359.8
20°	4052.6	3950.8	3853.4	3722.8	3594.4	3483.8	3381.9	3306.7	3242.5	3202.7	3187.2
22.5°	4247.4	4096.8	3939.7	3756.0	3572.3	3404.1	3224.8	3096.4	2985.8	2948.1	2930.4
25°	4455.4	4260.6	4026.0	3787.0	3497.0	3227.0	2983.6	2793.2	2647.1	2598.4	2578.5
27.5°	4685.6	4417.8	4114.6	3780.3	3342.1	2974.7	2651.6	2414.7	2270.9	2226.6	2242.1
30°	4977.7	4621.4	4225.2	3711.7	3109.7	2620.6	2242.1	2042.9	1934.4	1892.4	1894.6
32.5°	5367.3	4913.6	4386.8	3565.7	2810.9	2217.7	1885.7	1739.7	1666.6	1611.3	1606.9
35°	5925.0	5358.4	4537.3	3331.0	2447.9	1859.2	1617.9	1502.8	1401.0	1336.8	1347.9
37.5°	6593.5	5918.4	4619.2	3014.5	2040.7	1580.3	1416.5	1299.2	1184.1	1089.0	1100.0
40°	7385.8	6651.0	4612.6	2598.4	1668.8	1390.0	1248.3	1111.1	967.2	880.9	889.8
42.5°	8268.9	7343.8	4468.7	2158.0	1383.3	1235.0	1086.7	914.1	774.7	721.5	723.8
45°	9034.8	7906.0	4216.4	1702.0	1164.2	1084.5	918.5	741.5	679.5	641.9	639.6
47.5°	9601.4	8317.6	3855.6	1339.1	987.1	947.3	754.7	664.0	615.3	584.3	579.9
50°	9917.9	8461.5	3457.2	1049.1	834.4	803.4	675.1	602.0	568.8	548.9	544.5
52.5°	10342.8	8634.1	3171.7	827.8	699.4	657.4	621.9	560.0	537.8	522.3	515.7
55°	11015.7	8968.4	2923.8	657.4	582.1	573.2	586.5	535.6	522.3	498.0	489.1
57.5°	10382.7	8056.5	2270.9	509.1	491.4	524.6	566.6	511.3	478.1	455.9	447.1
60°	7306.2	5356.2	1142.1	409.5	438.2	491.4	533.4	462.6	429.4	433.8	429.4
62.5°	4028.2	2680.3	513.5	343.1	380.7	433.8	455.9	400.6	378.5	416.1	422.7
65°	1316.9	911.9	296.6	265.6	301.0	354.1	394.0	380.7	376.3	420.5	433.8
67.5°	405.0	301.0	201.4	190.3	208.1	261.2	332.0	411.7	442.7	455.9	462.6
70°	303.2	236.8	172.6	161.6	170.4	199.2	281.1	343.1	323.1	325.4	320.9
72.5°	243.5	188.1	148.3	141.7	141.7	137.2	148.3	185.9	210.3	221.3	221.3
75°	170.4	132.8	112.9	104.0	81.9	66.4	59.8	59.8	53.1	50.9	48.7
77.5°	57.5	48.7	44.3	35.4	24.3	19.9	17.7	15.5	11.1	6.6	4.4
80°	8.9	6.6	4.4	4.4	4.4	2.2	2.2	2.2	0.0	0.0	0.0
82.5°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
85°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	4.4	4.4	2.2	2.2	2.2	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)