

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: P637818

Luminaire Tested: GWS-SA4D-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24058 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

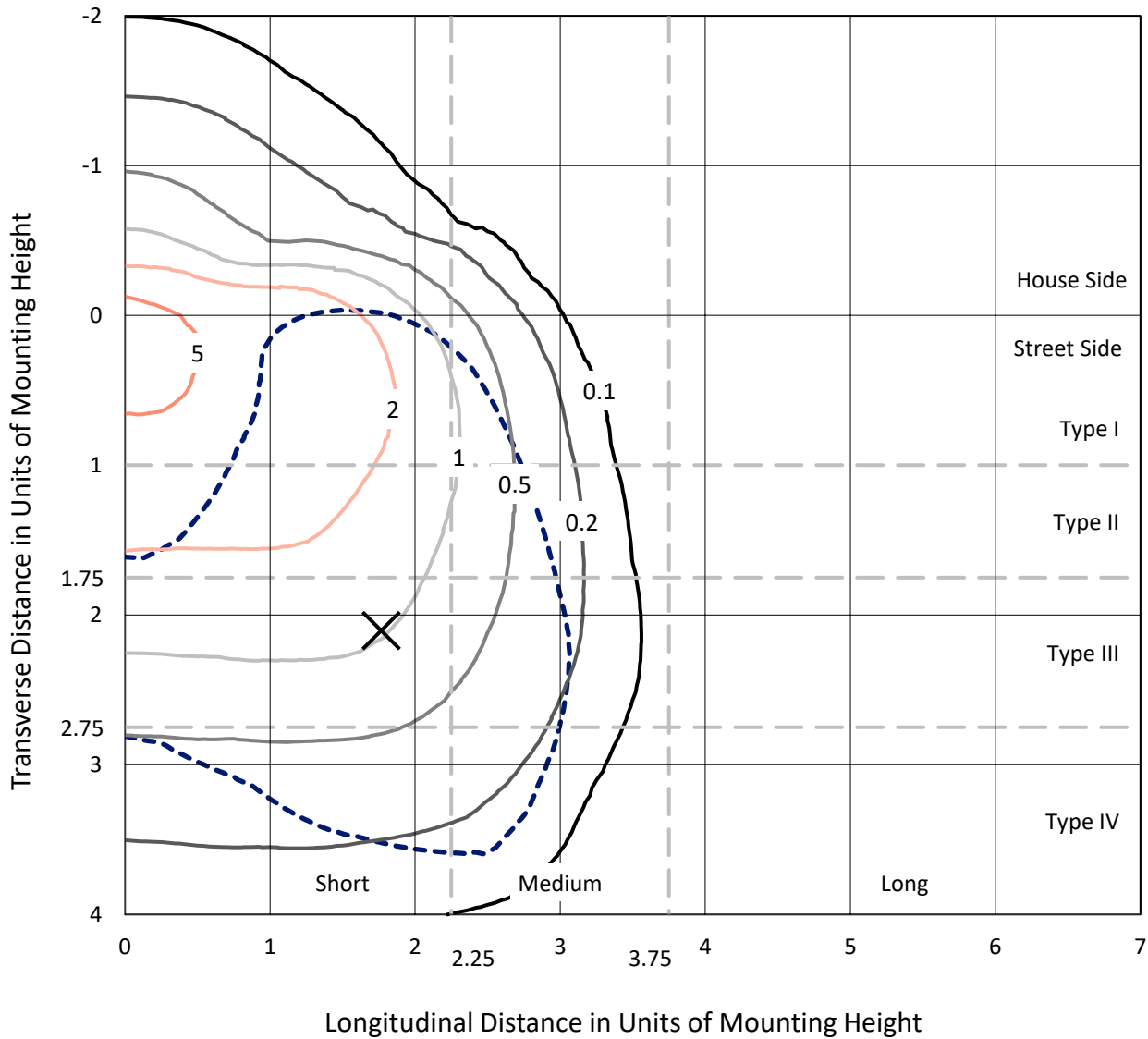
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

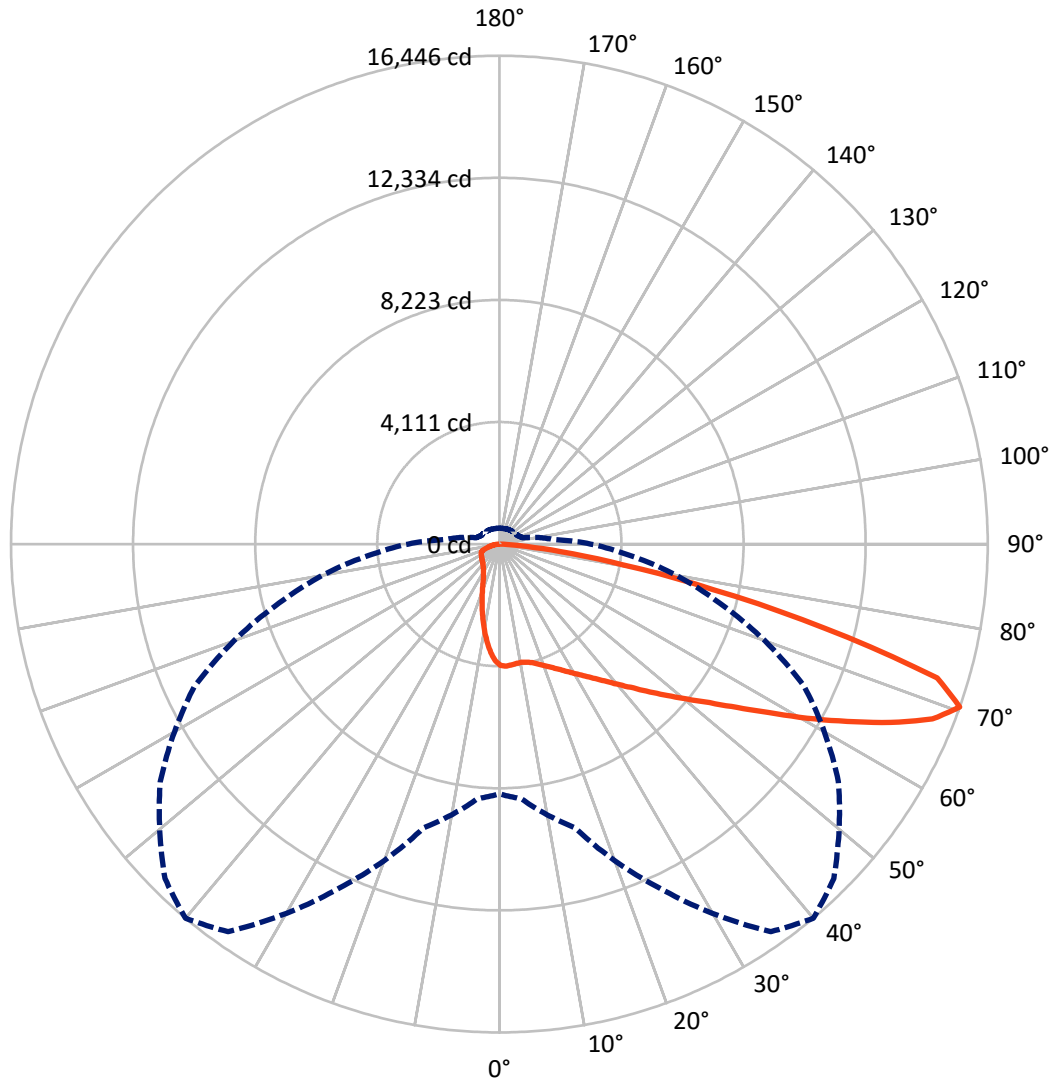
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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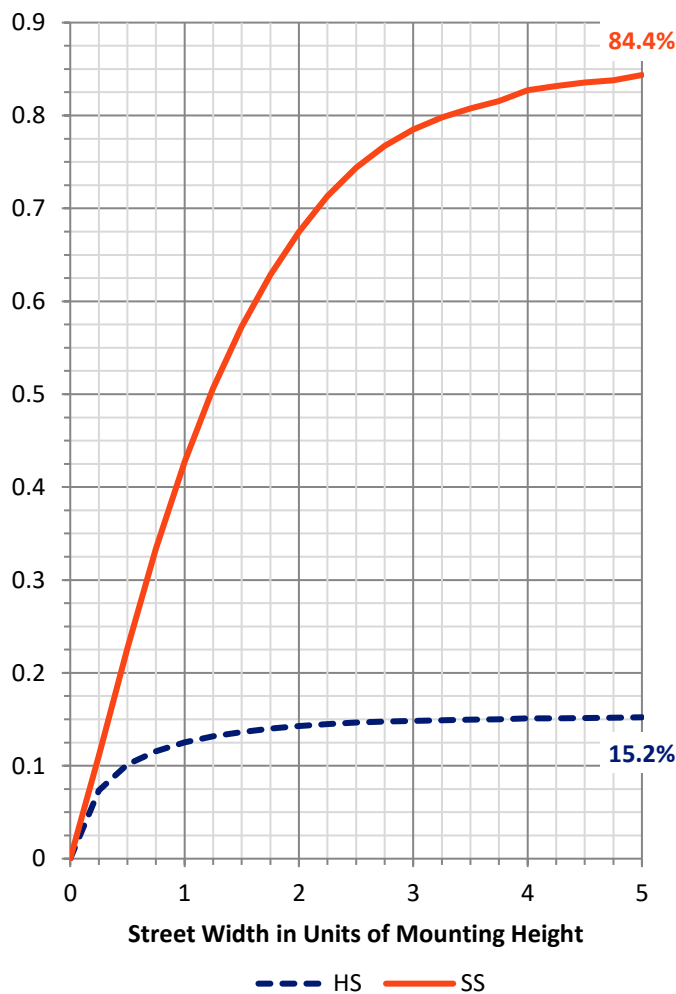
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3705.5	0.0	3705.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	20352.5	0.0	20352.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	24058.0	0.0	24058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.5
10°-20°	940.7	3.9
20°-30°	1477.1	6.1
30°-40°	2220.9	9.2
40°-50°	3428.0	14.2
50°-60°	5090.8	21.2
60°-70°	6416.9	26.7
70°-80°	3710.8	15.4
80°-90°	411.8	1.7
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°	24058.0	100.0
0°-180°	24058.0	100.0

Coefficient of Utilization



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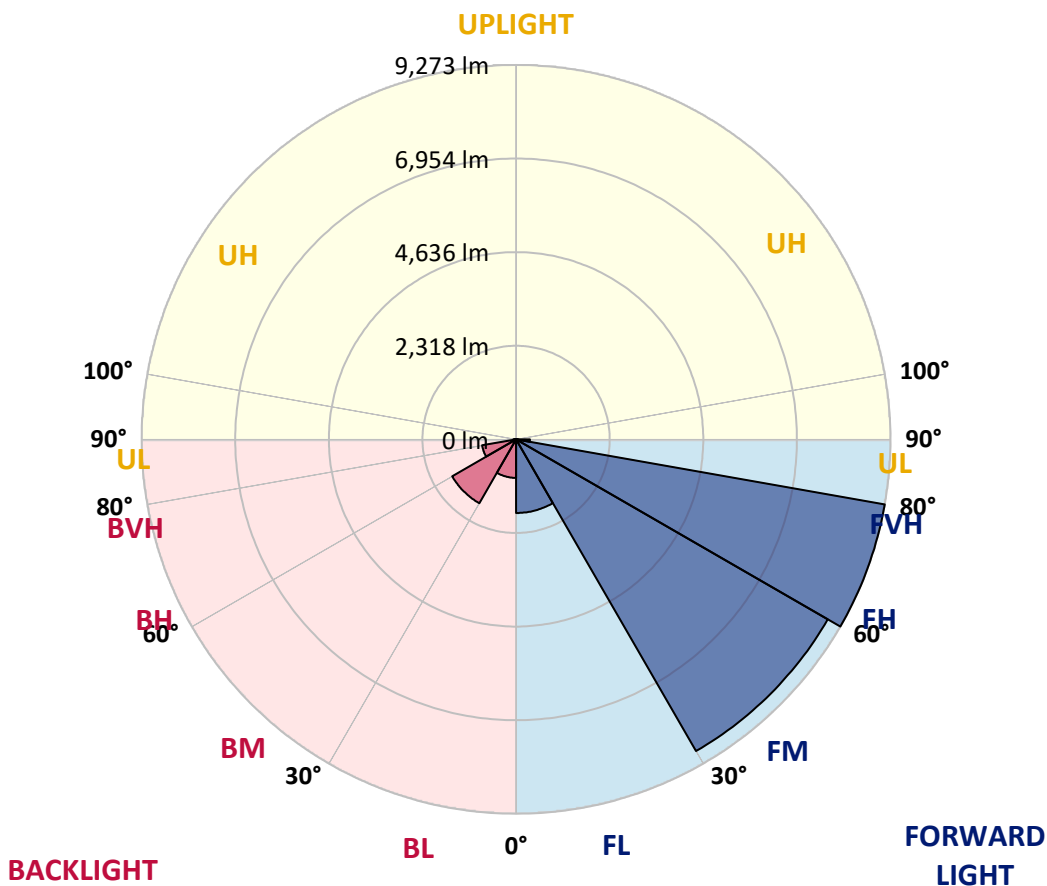
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.8	7.6			
FM (30°-60°)	8913.2	37.0			
FH (60°-80°)	9272.5	38.5			G4/12000
FVH (80°-90°)	343.0	1.4			G3/500
BL (0°-30°)	955.0	4.0	B2/1000		
BM (30°-60°)	1826.5	7.6	B2/2500		
BH (60°-80°)	855.2	3.6	B2/1000		G2/1000
BVH (80°-90°)	68.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3
2.5°	4110.5	4117.6	4123.0	4130.2	4126.6	4115.9	4124.8	4124.8	4105.1	4083.5	4063.8
5°	4115.9	4124.8	4123.0	4121.2	4106.9	4088.9	4088.9	4078.1	4044.0	4009.9	3977.6
7.5°	4105.1	4103.3	4101.5	4096.1	4079.9	4060.2	4056.6	4035.0	3990.1	3943.5	3896.8
10°	4056.6	4054.8	4060.2	4072.8	4069.2	4051.2	4051.2	4031.5	3979.4	3921.9	3860.9
12.5°	4017.1	4017.1	4038.6	4072.8	4085.3	4078.1	4079.9	4065.6	4006.3	3938.1	3866.2
15°	4022.5	4024.3	4071.0	4126.6	4150.0	4144.6	4146.4	4130.2	4063.8	3995.5	3898.6
17.5°	4058.4	4067.4	4148.2	4225.4	4255.9	4248.7	4236.2	4209.2	4133.8	4056.6	3938.1
20°	4133.8	4148.2	4252.3	4349.3	4385.2	4369.1	4347.5	4293.6	4211.0	4126.6	3981.2
22.5°	4282.9	4291.8	4406.8	4501.9	4530.7	4510.9	4467.8	4390.6	4295.4	4207.4	4033.2
25°	4493.0	4503.7	4613.3	4701.3	4694.1	4670.7	4611.5	4516.3	4403.2	4309.8	4108.7
27.5°	4742.6	4760.5	4868.3	4938.3	4891.6	4857.5	4791.1	4676.1	4548.6	4464.2	4223.6
30°	5015.5	5022.7	5114.3	5184.3	5112.5	5065.8	4985.0	4861.1	4746.2	4683.3	4396.0
32.5°	5279.5	5286.7	5365.7	5405.2	5329.8	5295.7	5225.6	5094.5	5013.7	4979.6	4652.8
35°	5557.8	5556.0	5620.7	5654.8	5577.6	5563.2	5491.4	5390.8	5376.5	5421.4	5028.1
37.5°	5836.2	5820.0	5854.1	5899.0	5855.9	5870.3	5823.6	5789.5	5845.2	5961.9	5527.3
40°	6058.9	6058.9	6094.8	6150.4	6164.8	6227.7	6200.7	6245.6	6425.2	6703.5	6145.0
42.5°	6256.4	6258.2	6333.6	6419.8	6523.9	6620.9	6642.5	6759.2	7130.9	7567.3	6920.8
45°	6462.9	6464.7	6567.0	6692.7	6913.6	7098.6	7141.7	7403.9	7935.4	8466.9	7763.0
47.5°	6701.7	6682.0	6823.8	7033.9	7348.2	7614.0	7725.3	8097.0	8768.6	9422.3	8556.7
50°	6971.1	6929.8	7087.8	7450.6	7838.4	8203.0	8389.7	8815.3	9662.9	10304.0	9303.8
52.5°	7274.6	7251.2	7416.4	7858.2	8450.8	8871.0	9124.2	9682.7	10532.1	11182.1	9896.4
55°	7651.7	7596.0	7834.8	8396.9	9169.1	9704.2	10004.1	10541.0	11482.0	11979.4	10348.9
57.5°	8064.7	8003.6	8323.3	9070.3	10102.9	10690.1	11065.4	11507.1	12376.3	12590.0	10614.7
60°	8510.0	8490.3	8869.2	9860.4	11216.2	11898.6	12169.8	12570.2	13153.8	12943.7	10548.2
62.5°	8917.7	8910.5	9461.8	10717.0	12396.0	13146.7	13362.2	13468.1	13714.1	12920.4	10020.3
65°	9346.9	9407.9	10153.2	11710.1	13748.2	14484.5	14574.3	14304.9	13902.7	12308.0	8939.2
67.5°	9400.7	9519.3	10587.7	12640.3	15030.4	15725.4	15653.5	14622.8	13346.0	10603.9	7007.0
70°	8407.7	8614.2	9894.6	12782.1	15933.7	16445.5	15926.5	13938.6	11325.8	7682.2	4406.8
72.5°	7025.0	7202.7	8334.1	10900.2	14768.2	15420.1	14717.9	11798.1	8003.6	4406.8	2244.7
75°	5468.0	5674.6	6717.9	8664.5	11056.4	11316.8	10964.8	8228.1	4399.6	1817.3	1020.0
77.5°	3336.5	3485.5	4297.2	5870.3	7736.1	7346.4	6225.9	4613.3	1930.4	870.9	630.3
80°	1476.1	1567.7	2117.2	3153.3	4469.6	4225.4	3331.1	1969.9	1055.9	553.1	440.0
82.5°	791.9	851.2	1043.3	1248.0	1962.8	2052.5	1664.7	1134.9	567.5	316.1	251.4
85°	348.4	382.5	474.1	452.5	644.7	633.9	639.3	779.4	271.2	145.5	163.4
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	19.8	104.2	26.9	43.1	37.7
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°	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3	4085.3
2.5°	4042.2	4009.9	4000.9	3990.1	3970.4	3936.3	3911.1	3882.4	3869.8	3855.5	3857.3
5°	3941.7	3902.2	3864.4	3816.0	3754.9	3686.7	3640.0	3586.1	3557.4	3530.4	3537.6
7.5°	3855.5	3794.4	3717.2	3614.8	3505.3	3383.2	3284.4	3207.2	3155.1	3119.2	3137.2
10°	3801.6	3729.8	3595.1	3428.1	3243.1	3056.4	2914.5	2781.6	2699.0	2634.4	2630.8
12.5°	3790.8	3697.4	3501.7	3259.3	2991.7	2742.1	2533.8	2354.2	2244.7	2163.9	2194.4
15°	3801.6	3683.1	3420.9	3103.1	2765.5	2427.8	2169.3	1962.8	1831.7	1758.0	1752.6
17.5°	3814.2	3668.7	3329.3	2934.3	2528.4	2142.3	1842.4	1623.4	1488.7	1415.0	1416.8
20°	3824.9	3647.2	3221.6	2749.3	2287.8	1876.6	1565.9	1357.6	1237.3	1183.4	1192.4
22.5°	3842.9	3625.6	3106.6	2551.8	2041.8	1619.8	1346.8	1178.0	1106.2	1070.3	1072.1
25°	3877.0	3613.0	2988.1	2336.3	1799.3	1415.0	1196.0	1082.8	1037.9	1016.4	1014.6
27.5°	3947.1	3623.8	2864.2	2128.0	1580.3	1258.8	1099.0	1025.4	994.8	980.5	978.7
30°	4063.8	3666.9	2756.5	1916.1	1391.7	1136.7	1032.6	987.7	969.7	957.1	955.3
32.5°	4241.6	3747.7	2639.7	1718.5	1239.1	1046.9	980.5	957.1	944.6	937.4	937.4
35°	4510.9	3895.0	2524.8	1546.1	1120.5	976.9	939.2	930.2	919.4	915.8	919.4
37.5°	4898.8	4130.2	2420.7	1395.3	1036.1	923.0	894.3	897.9	888.9	894.3	899.7
40°	5390.8	4444.5	2332.7	1271.4	973.3	883.5	854.8	867.3	862.0	867.3	876.3
42.5°	6014.0	4834.2	2266.2	1174.4	928.4	851.2	824.2	836.8	833.2	840.4	849.4
45°	6708.9	5347.7	2235.7	1106.2	896.1	827.8	799.1	808.1	804.5	809.9	818.9
47.5°	7375.1	5814.6	2262.6	1066.7	869.1	808.1	777.6	781.1	779.4	777.6	782.9
50°	7949.8	6186.3	2339.9	1054.1	851.2	788.3	759.6	761.4	756.0	745.2	748.8
52.5°	8418.5	6484.4	2386.5	1054.1	842.2	766.8	739.8	741.6	730.9	716.5	718.3
55°	8727.3	6604.8	2348.8	1052.3	838.6	748.8	720.1	721.9	711.1	693.2	695.0
57.5°	8815.3	6488.0	2190.8	1032.6	835.0	734.5	700.3	703.9	696.7	677.0	677.0
60°	8569.3	6060.6	1901.7	987.7	826.0	725.5	686.0	691.4	687.8	668.0	668.0
62.5°	7924.6	5301.0	1556.9	919.4	800.9	714.7	673.4	684.2	693.2	682.4	680.6
65°	6717.9	4246.9	1266.0	844.0	768.6	696.7	655.4	682.4	702.1	716.5	716.5
67.5°	5040.7	3040.2	1032.6	765.0	720.1	660.8	632.1	657.2	671.6	680.6	686.0
70°	3072.5	1788.6	813.5	673.4	650.1	607.0	585.4	560.3	540.5	536.9	538.7
72.5°	1503.0	1023.6	660.8	572.8	554.9	515.4	466.9	456.1	447.1	441.8	440.0
75°	827.8	712.9	545.9	475.9	443.5	395.1	384.3	366.3	362.7	355.6	357.4
77.5°	585.4	562.1	450.7	386.1	337.6	312.5	317.8	305.3	305.3	299.9	298.1
80°	440.0	441.8	346.6	281.9	249.6	240.6	246.0	246.0	242.4	240.6	238.8
82.5°	278.3	314.3	233.4	181.4	177.8	179.6	177.8	176.0	179.6	174.2	172.4
85°	192.1	226.3	141.9	107.7	107.7	105.9	109.5	107.7	111.3	105.9	105.9
87.5°	43.1	100.6	52.1	32.3	34.1	32.3	34.1	35.9	39.5	41.3	41.3
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)