

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: P635550

Luminaire Tested: GWS-SA3E-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16495.6 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

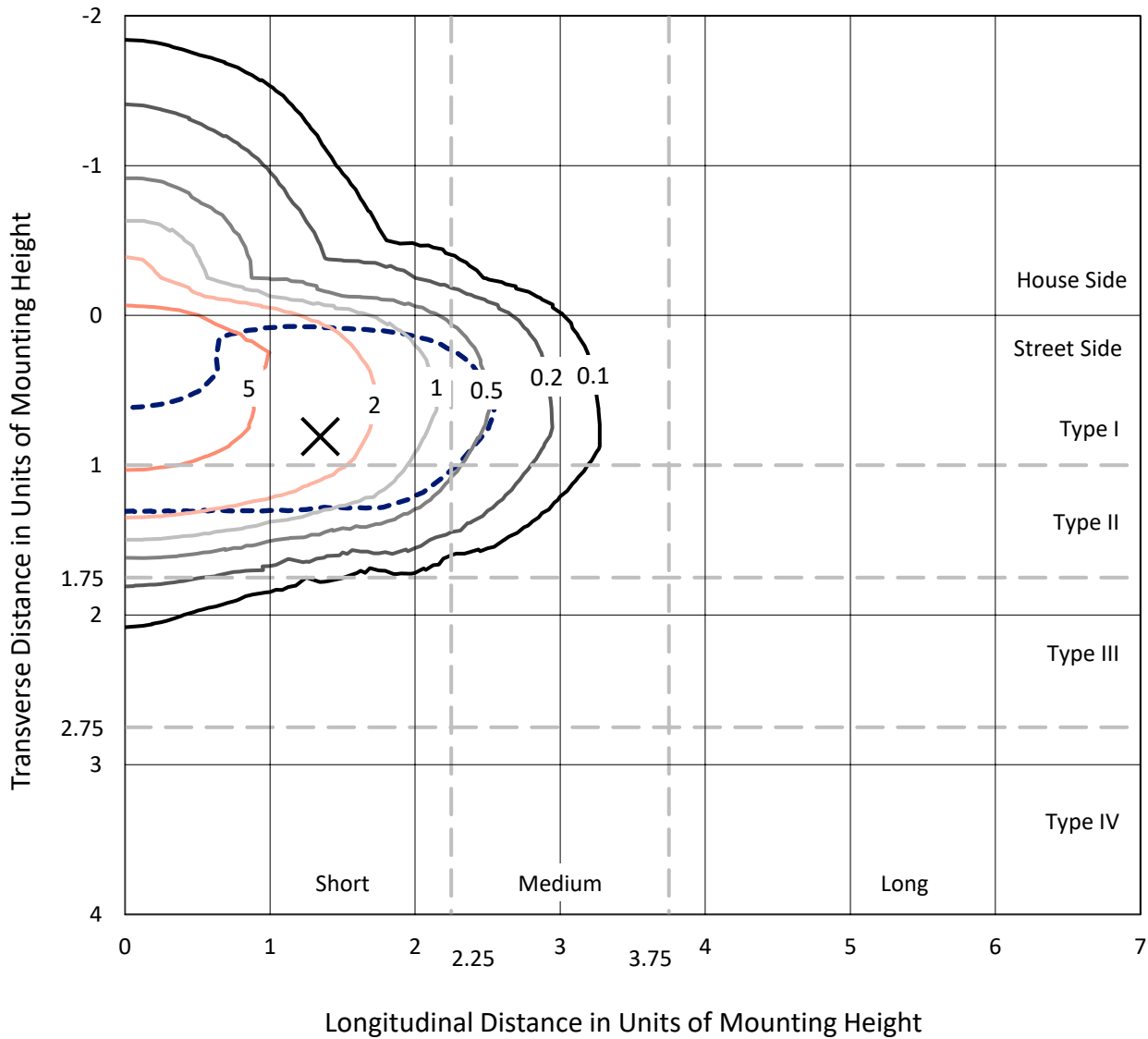
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

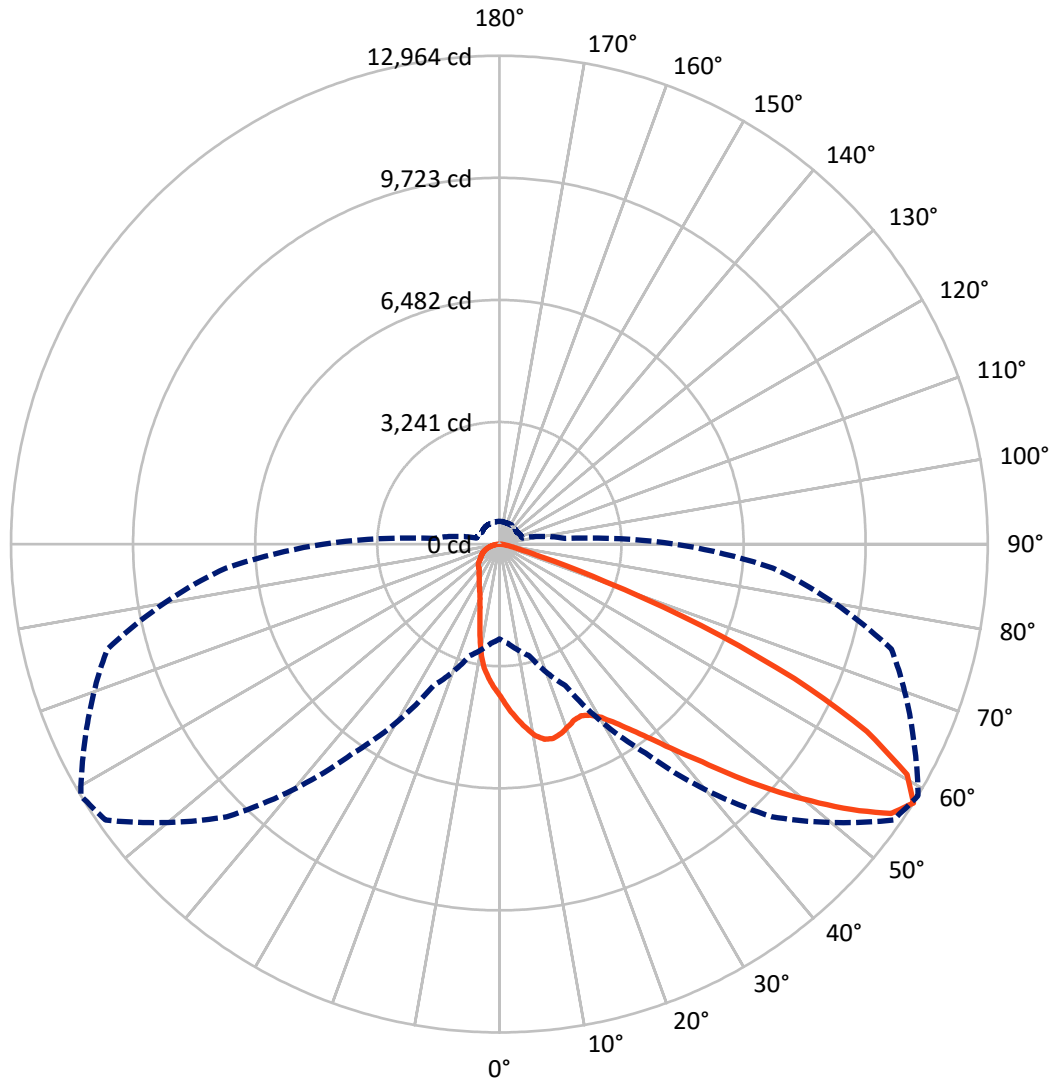
✕ Max cd
 - - - 1/2 Max cd



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 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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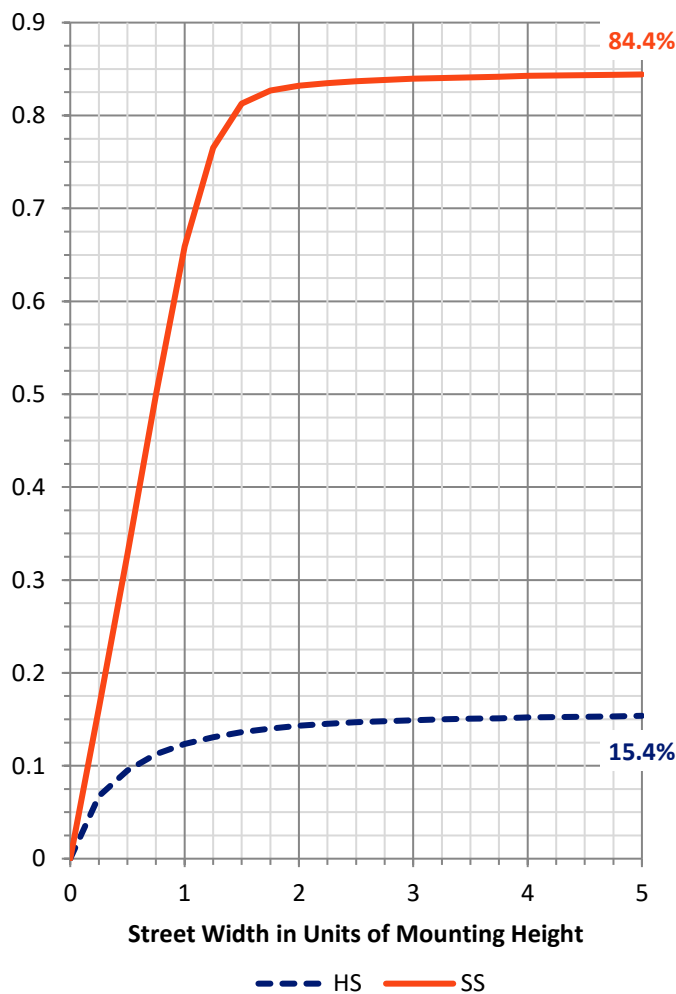
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2560.0	0.0	2560.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13935.6	0.0	13935.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	16495.6	0.0	16495.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.0	2.3
10°-20°	952.8	5.8
20°-30°	1544.4	9.4
30°-40°	2484.4	15.1
40°-50°	3858.1	23.4
50°-60°	4155.6	25.2
60°-70°	2411.8	14.6
70°-80°	629.6	3.8
80°-90°	82.9	0.5
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°	16495.6	100.0
0°-180°	16495.6	100.0

Coefficient of Utilization



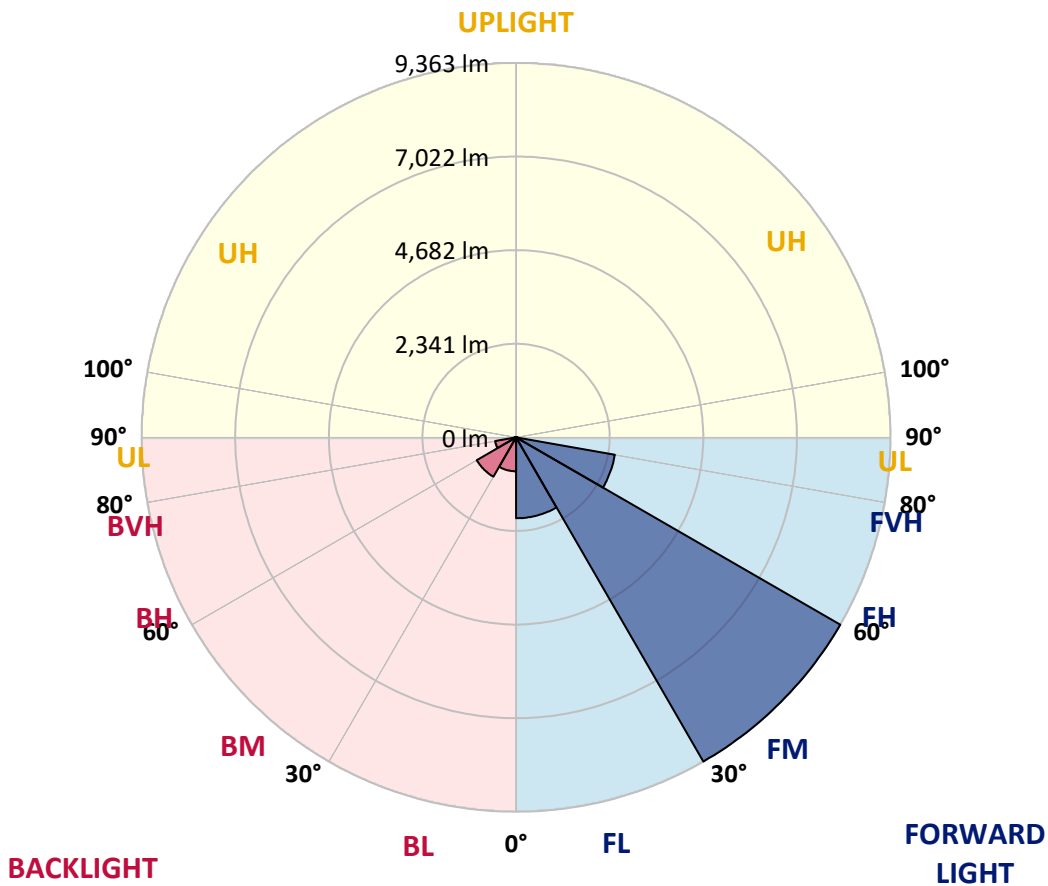
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.9	12.3			
FM (30°-60°)	9363.1	56.8			
FH (60°-80°)	2508.9	15.2			G2/5000
FVH (80°-90°)	39.7	0.2			G1/100
BL (0°-30°)	849.3	5.1	B2/1000		
BM (30°-60°)	1135.0	6.9	B2/2500		
BH (60°-80°)	532.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	43.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3
2.5°	4592.8	4554.5	4581.2	4533.6	4513.8	4461.6	4394.2	4348.9	4279.3	4188.7	4109.7
5°	5049.2	5022.5	5028.3	4977.2	4931.9	4844.8	4706.6	4630.0	4511.5	4329.2	4159.7
7.5°	5035.3	5066.6	5084.0	5128.2	5140.9	5132.8	5008.5	4901.7	4771.6	4497.6	4242.1
10°	4513.8	4573.1	4626.5	4777.5	4960.9	5193.2	5222.2	5158.4	5027.1	4712.4	4340.8
12.5°	3946.0	3991.3	4038.9	4220.0	4501.1	4965.6	5280.3	5319.8	5267.5	4924.9	4452.3
15°	3667.3	3688.2	3733.5	3853.1	4077.2	4592.8	5179.3	5352.3	5446.3	5150.2	4577.7
17.5°	3655.7	3665.0	3687.0	3750.9	3906.5	4304.8	4996.9	5287.3	5586.9	5388.3	4724.0
20°	3896.1	3871.7	3857.7	3856.6	3933.2	4208.4	4820.4	5182.7	5653.1	5632.1	4880.8
22.5°	4229.3	4237.5	4207.3	4133.0	4123.7	4276.9	4732.2	5077.1	5672.8	5848.1	5026.0
25°	4702.0	4742.6	4653.2	4511.5	4441.8	4475.5	4786.7	5044.5	5670.5	6028.1	5116.5
27.5°	5253.6	5284.9	5194.3	5008.5	4864.5	4783.3	4949.3	5140.9	5690.2	6183.7	5171.1
30°	5881.8	5892.3	5768.0	5572.9	5362.7	5188.5	5219.9	5339.5	5791.2	6388.1	5235.0
32.5°	6649.4	6693.5	6505.4	6196.5	5902.7	5679.8	5583.4	5660.0	6009.6	6629.7	5333.7
35°	7623.7	7638.8	7399.6	6957.2	6541.4	6232.5	6030.5	6071.1	6341.7	6967.6	5482.3
37.5°	8542.3	8557.4	8303.1	7892.0	7297.4	6874.7	6582.1	6563.5	6766.7	7444.9	5725.0
40°	9125.2	9168.2	9054.4	8796.6	8228.7	7658.6	7261.4	7197.5	7324.1	8029.0	6063.0
42.5°	9438.8	9457.4	9455.0	9488.7	9150.8	8584.1	8027.8	7900.1	7984.9	8659.6	6404.4
45°	9441.1	9487.6	9611.8	9935.8	9950.9	9597.9	8996.3	8796.6	8718.8	9294.8	6760.9
47.5°	9018.4	9068.3	9409.8	10047.3	10517.6	10597.7	10156.4	9755.8	9428.3	9841.7	7053.5
50°	7738.7	7864.1	8514.4	9642.0	10629.1	11399.0	11263.1	10719.7	10058.9	10264.4	7237.0
52.5°	6627.4	6622.7	7023.3	8497.0	10163.4	11752.0	12333.8	11711.4	10682.5	10532.7	7283.5
55°	4852.9	4879.6	5289.6	6498.5	8920.9	11410.6	12922.6	12624.1	11397.8	10675.5	7264.9
57.5°	2516.5	2648.9	3069.2	4146.9	6778.3	10235.4	12765.8	12964.4	12124.8	10776.6	7289.3
60°	1271.6	1246.0	1397.0	1980.0	3927.4	7994.2	11799.6	12432.5	12256.0	10855.5	7304.4
62.5°	848.9	841.9	800.1	917.4	1604.9	4734.5	10058.9	10946.1	11344.4	10669.7	7111.6
65°	735.1	721.1	644.5	639.9	779.2	1963.7	7372.9	8605.0	9376.1	9844.1	6650.6
67.5°	661.9	641.0	563.2	524.9	559.7	862.8	4155.0	5771.5	6923.5	8325.1	5640.3
70°	591.1	580.6	502.8	447.1	443.6	526.1	1530.6	2978.7	4236.3	5679.8	4123.7
72.5°	529.5	511.0	444.8	391.3	364.6	372.8	664.2	1147.3	2192.5	3543.0	2466.5
75°	458.7	444.8	386.7	333.3	300.8	272.9	405.3	530.7	999.9	1683.8	1164.8
77.5°	354.2	344.9	305.4	264.8	246.2	203.2	246.2	334.4	462.2	709.5	606.2
80°	205.5	211.4	227.6	206.7	181.2	145.2	160.3	192.8	277.5	384.4	343.7
82.5°	103.4	110.3	147.5	119.6	108.0	84.8	95.2	113.8	145.2	212.5	134.7
85°	8.1	8.1	26.7	30.2	37.2	30.2	38.3	46.5	66.2	84.8	45.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.8	10.5	19.7	12.8
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°	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3	4049.3
2.5°	4056.3	3997.1	3926.2	3868.2	3778.8	3731.2	3670.8	3596.4	3566.3	3552.3	3544.2
5°	4064.4	3959.9	3809.0	3669.6	3515.2	3393.2	3257.4	3115.7	3034.4	3014.7	3000.7
7.5°	4094.6	3948.3	3707.9	3478.0	3191.2	2925.2	2666.3	2409.6	2278.4	2228.5	2223.8
10°	4136.4	3943.7	3605.7	3223.7	2739.4	2319.1	2016.0	1815.1	1730.3	1702.4	1693.1
12.5°	4188.7	3940.2	3471.0	2870.7	2218.0	1820.9	1647.8	1615.3	1626.9	1624.6	1624.6
15°	4254.9	3944.8	3308.5	2471.2	1794.2	1580.5	1584.0	1622.3	1658.3	1664.1	1664.1
17.5°	4326.9	3940.2	3072.7	2070.5	1539.8	1523.6	1577.0	1630.4	1662.9	1667.6	1667.6
20°	4404.7	3918.1	2775.4	1693.1	1428.4	1487.6	1545.6	1587.5	1607.2	1611.8	1611.8
22.5°	4451.1	3855.4	2452.6	1433.0	1357.5	1430.7	1469.0	1512.0	1514.3	1477.1	1476.0
25°	4444.2	3738.1	2084.5	1265.8	1282.0	1345.9	1394.7	1364.5	1327.3	1306.4	1302.9
27.5°	4400.0	3561.6	1709.4	1139.2	1192.6	1264.6	1249.5	1224.0	1214.7	1191.5	1189.1
30°	4344.3	3344.5	1372.6	1040.5	1099.7	1165.9	1142.7	1140.4	1131.1	1105.5	1105.5
32.5°	4290.9	3120.3	1118.3	967.3	1040.5	1045.1	1077.7	1080.0	1075.3	1031.2	1026.6
35°	4275.8	2896.2	946.4	909.3	982.4	980.1	1026.6	1025.4	945.3	883.7	882.6
37.5°	4321.1	2668.6	844.2	861.7	902.3	932.5	969.7	902.3	875.6	838.4	836.1
40°	4417.5	2458.4	792.0	833.8	851.2	895.3	837.3	841.9	835.0	807.1	803.6
42.5°	4545.2	2279.6	763.0	824.5	822.2	833.8	769.9	788.5	799.0	778.0	774.6
45°	4668.3	2124.0	747.9	789.7	801.3	733.9	721.1	738.6	754.8	746.7	743.2
47.5°	4758.9	1989.3	739.7	742.0	774.6	700.2	679.3	687.5	707.2	710.7	709.5
50°	4786.7	1874.3	730.4	702.6	695.6	666.6	650.3	648.0	671.2	687.5	689.8
52.5°	4733.3	1772.1	706.1	667.7	634.1	638.7	632.9	621.3	644.5	666.6	668.9
55°	4654.4	1714.0	667.7	634.1	594.6	613.1	615.5	605.0	620.1	635.2	635.2
57.5°	4660.2	1747.7	630.6	602.7	559.7	584.1	596.9	592.2	592.2	603.9	605.0
60°	4698.5	1796.5	606.2	563.2	524.9	550.4	579.5	574.8	564.4	579.5	579.5
62.5°	4588.2	1731.4	589.9	524.9	487.7	517.9	552.8	550.4	538.8	563.2	565.5
65°	4263.0	1557.3	571.3	477.3	450.6	485.4	515.6	523.7	513.3	545.8	551.6
67.5°	3573.2	1309.9	535.3	432.0	413.4	445.9	475.0	486.6	478.4	516.8	521.4
70°	2663.9	1060.2	478.4	382.1	368.1	397.2	423.9	428.5	429.7	475.0	479.6
72.5°	1698.9	824.5	403.0	326.3	315.9	337.9	357.7	376.3	384.4	427.3	426.2
75°	947.6	613.1	324.0	276.4	257.8	275.2	298.4	320.5	343.7	406.4	413.4
77.5°	545.8	430.8	256.6	221.8	199.7	218.3	238.1	269.4	339.1	393.7	386.7
80°	307.7	279.9	193.9	162.6	148.6	162.6	177.7	236.9	267.1	290.3	293.8
82.5°	144.0	156.8	132.4	99.9	99.9	109.2	123.1	183.5	202.1	164.9	144.0
85°	52.3	70.8	65.0	51.1	45.3	44.1	76.6	104.5	65.0	58.1	49.9
87.5°	13.9	19.7	18.6	12.8	7.0	5.8	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)