

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: P635220

Luminaire Tested: GWS-SA3D-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635220  
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-SA3D-735-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17674.9 lumens  
Efficiency: N/A  
Efficacy: 146.3 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): 120.8  
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

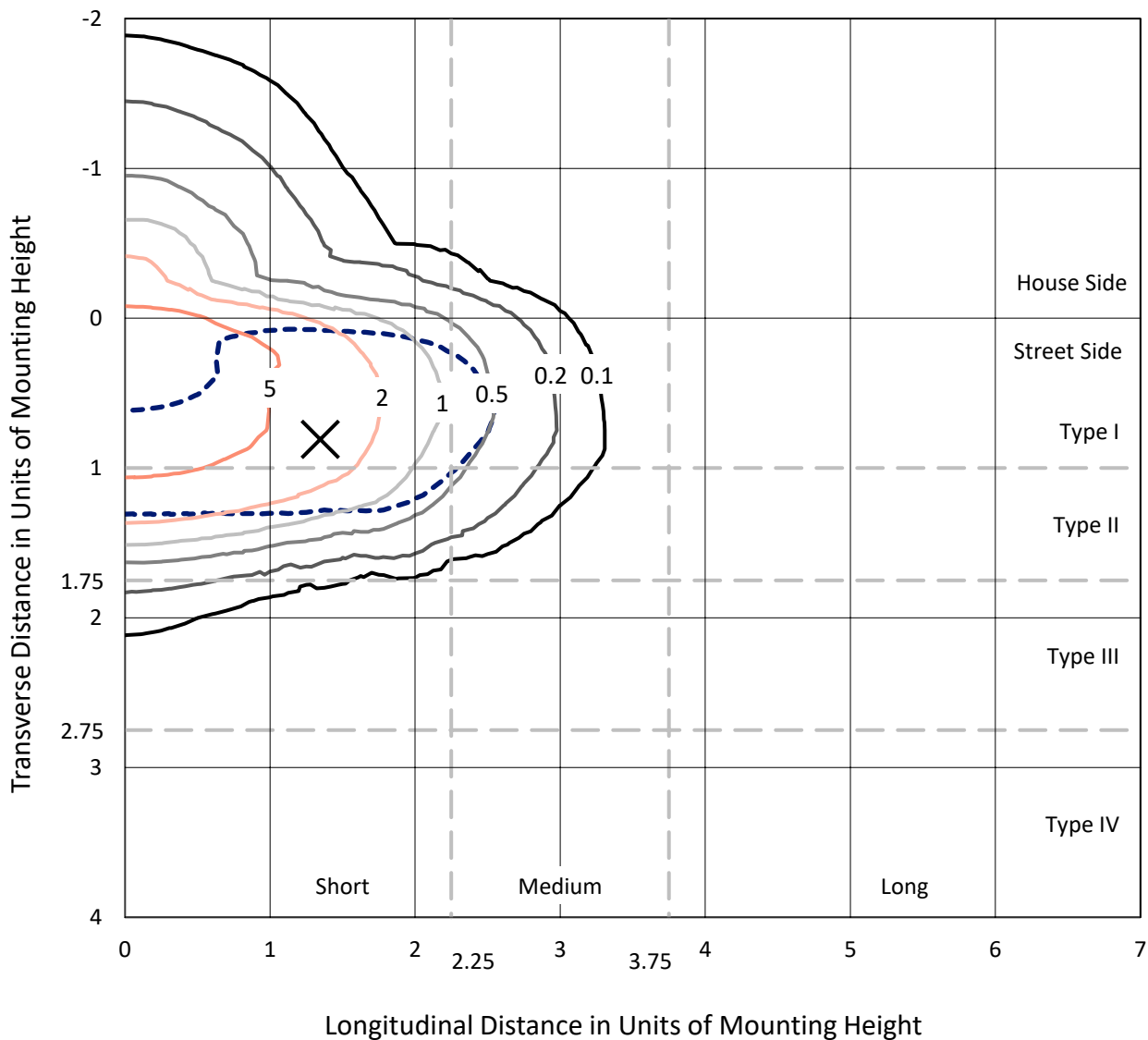


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### Iso-Footcandle Lines of Horizontal Illumination

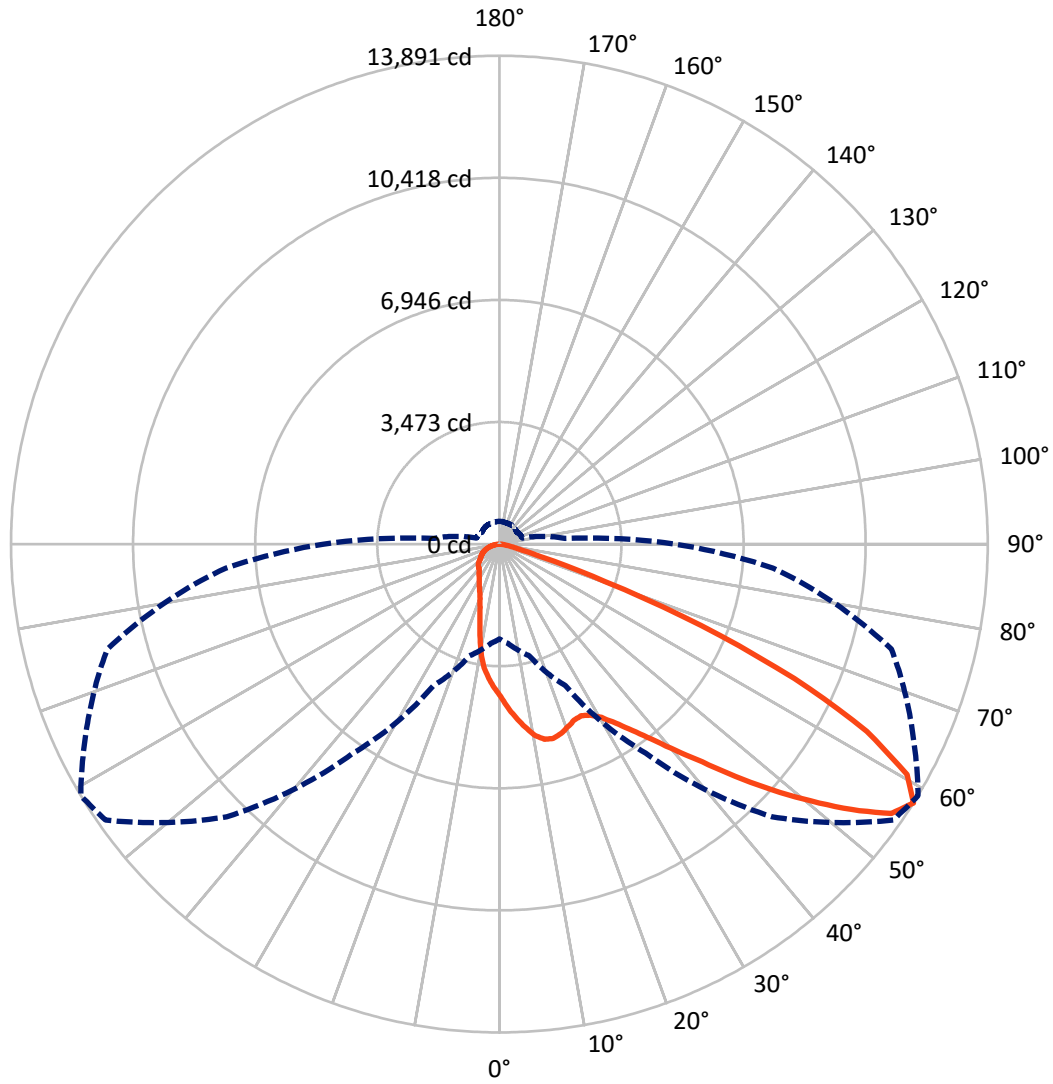
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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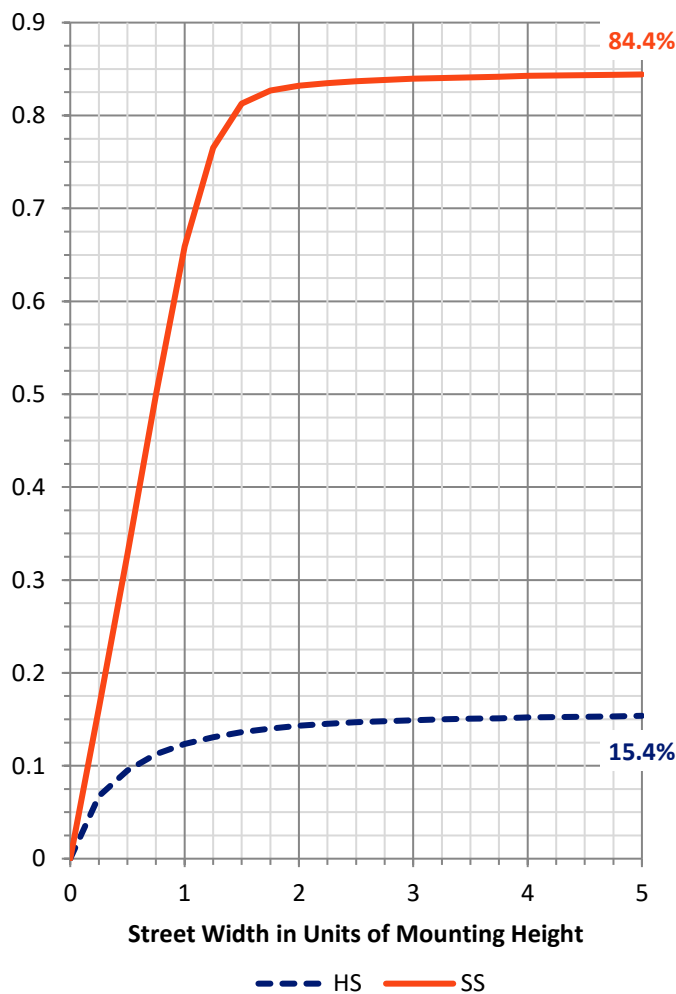
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2743.1	0.0	2743.1
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	14931.8	0.0	14931.8
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	17674.9	0.0	17674.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.9	2.3
10°-20°	1020.9	5.8
20°-30°	1654.8	9.4
30°-40°	2662.0	15.1
40°-50°	4133.9	23.4
50°-60°	4452.7	25.2
60°-70°	2584.2	14.6
70°-80°	674.6	3.8
80°-90°	88.9	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°	17674.9	100.0
0°-180°	17674.9	100.0

**Coefficient of Utilization**



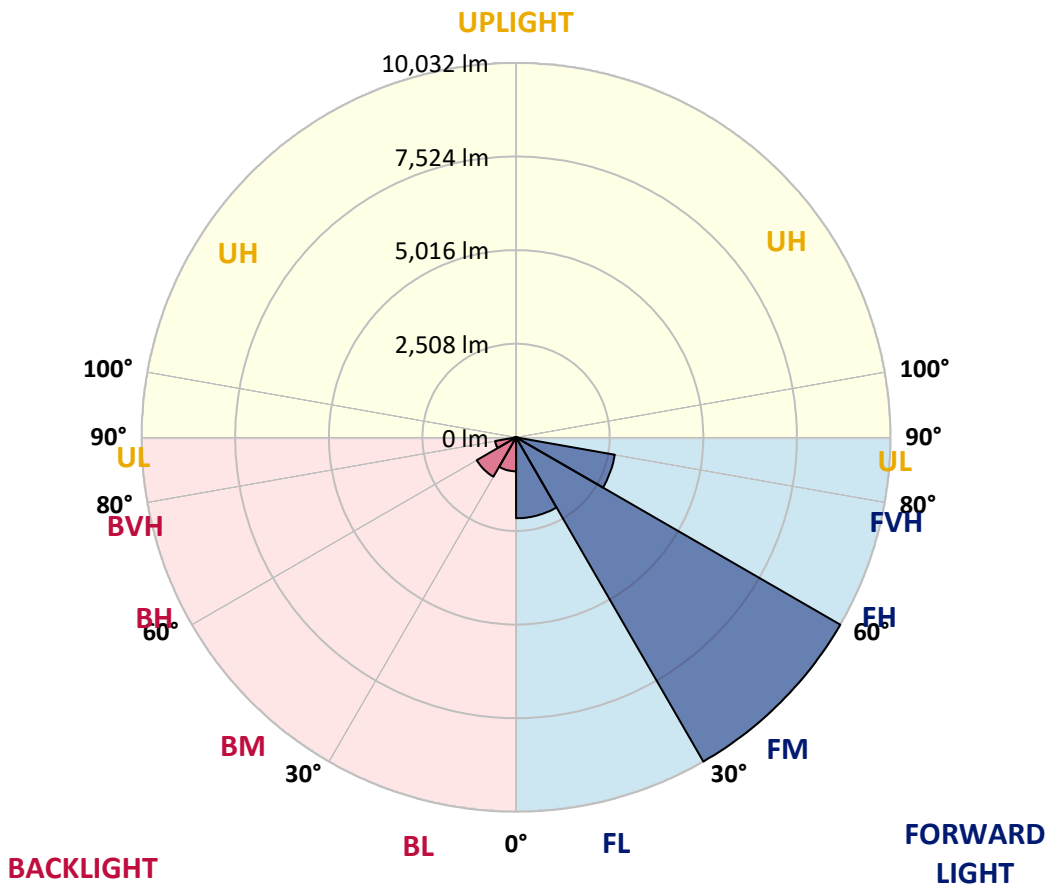
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2168.5	12.3			
FM (30°-60°)	10032.5	56.8			
FH (60°-80°)	2688.3	15.2			G2/5000
FVH (80°-90°)	42.5	0.2			G1/100
BL (0°-30°)	910.0	5.1	B2/1000		
BM (30°-60°)	1216.2	6.9	B2/2500		
BH (60°-80°)	570.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	46.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**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°	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8
2.5°	4921.2	4880.1	4908.7	4857.7	4836.5	4780.6	4708.4	4659.9	4585.2	4488.1	4403.5
5°	5410.2	5381.5	5387.8	5333.0	5284.5	5191.2	5043.1	4961.0	4834.1	4638.7	4457.0
7.5°	5395.2	5428.8	5447.5	5494.8	5508.5	5499.8	5366.6	5252.1	5112.8	4819.1	4545.4
10°	4836.5	4900.0	4957.2	5119.0	5315.6	5564.5	5595.6	5527.1	5386.5	5049.3	4651.2
12.5°	4228.1	4276.6	4327.6	4521.7	4822.9	5320.6	5657.8	5700.1	5644.1	5277.0	4770.6
15°	3929.5	3951.9	4000.4	4128.5	4368.7	4921.2	5549.5	5734.9	5835.7	5518.4	4905.0
17.5°	3917.0	3927.0	3950.6	4019.1	4185.8	4612.6	5354.2	5665.2	5986.3	5773.5	5061.8
20°	4174.6	4148.5	4133.5	4132.3	4214.4	4509.3	5165.0	5553.3	6057.2	6034.8	5229.7
22.5°	4531.7	4540.4	4508.1	4428.4	4418.5	4582.7	5070.5	5440.0	6078.4	6266.2	5385.3
25°	5038.1	5081.7	4985.9	4834.1	4759.4	4795.5	5129.0	5405.2	6075.9	6459.1	5482.3
27.5°	5629.2	5662.8	5565.7	5366.6	5212.3	5125.2	5303.2	5508.5	6097.0	6625.8	5540.8
30°	6302.3	6313.5	6180.4	5971.3	5746.1	5559.5	5593.1	5721.2	6205.3	6844.8	5609.3
32.5°	7124.8	7172.1	6970.5	6639.5	6324.7	6085.8	5982.5	6064.7	6439.2	7103.6	5715.0
35°	8168.8	8184.9	7928.6	7454.5	7009.1	6678.1	6461.6	6505.1	6795.1	7465.7	5874.3
37.5°	9153.0	9169.2	8896.7	8456.2	7819.1	7366.2	7052.6	7032.7	7250.5	7977.1	6134.3
40°	9777.6	9823.7	9701.7	9425.5	8817.0	8206.1	7780.5	7712.1	7847.7	8603.0	6496.4
42.5°	10113.6	10133.5	10131.0	10167.1	9805.0	9197.8	8601.8	8464.9	8555.7	9278.7	6862.3
45°	10116.1	10165.8	10299.0	10646.1	10662.3	10284.0	9639.5	9425.5	9342.1	9959.3	7244.2
47.5°	9663.1	9716.7	10082.5	10765.6	11269.5	11355.4	10882.5	10453.3	10102.4	10545.3	7557.8
50°	8291.9	8426.3	9123.1	10331.3	11389.0	12213.9	12068.4	11486.0	10778.0	10998.3	7754.4
52.5°	7101.2	7096.2	7525.5	9104.5	10890.0	12592.2	13215.6	12548.7	11446.2	11285.7	7804.2
55°	5199.9	5228.5	5667.7	6963.0	9558.6	12226.4	13846.4	13526.7	12212.7	11438.7	7784.3
57.5°	2696.4	2838.2	3288.7	4443.4	7262.9	10967.2	13678.5	13891.2	12991.6	11547.0	7810.4
60°	1362.5	1335.1	1496.9	2121.5	4208.2	8565.7	12643.2	13321.4	13132.2	11631.6	7826.6
62.5°	909.6	902.1	857.3	983.0	1719.6	5073.0	10778.0	11728.7	12155.5	11432.5	7620.0
65°	787.6	772.7	690.6	685.6	834.9	2104.1	7900.0	9220.2	10046.4	10547.8	7126.0
67.5°	709.2	686.8	603.5	562.4	599.7	924.5	4452.1	6184.1	7418.4	8920.3	6043.5
70°	633.3	622.1	538.8	479.1	475.3	563.7	1640.0	3191.6	4539.2	6085.8	4418.5
72.5°	567.4	547.5	476.6	419.3	390.7	399.4	711.7	1229.4	2349.2	3796.3	2642.9
75°	491.5	476.6	414.3	357.1	322.3	292.4	434.3	568.6	1071.3	1804.2	1248.0
77.5°	379.5	369.6	327.2	283.7	263.8	217.8	263.8	358.4	495.2	760.3	649.5
80°	220.2	226.5	243.9	221.5	194.1	155.5	171.7	206.6	297.4	411.9	368.3
82.5°	110.7	118.2	158.0	128.2	115.7	90.8	102.0	121.9	155.5	227.7	144.3
85°	8.7	8.7	28.6	32.4	39.8	32.4	41.1	49.8	70.9	90.8	48.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	6.2	11.2	21.2	13.7
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°	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8	4338.8
2.5°	4346.3	4282.8	4206.9	4144.7	4048.9	3997.9	3933.2	3853.6	3821.2	3806.3	3797.6
5°	4355.0	4243.0	4081.3	3932.0	3766.5	3635.8	3490.2	3338.4	3251.3	3230.2	3215.2
7.5°	4387.4	4230.6	3973.0	3726.6	3419.3	3134.4	2856.9	2581.9	2441.3	2387.8	2382.8
10°	4432.2	4225.6	3863.5	3454.1	2935.3	2484.8	2160.1	1944.8	1854.0	1824.1	1814.2
12.5°	4488.1	4221.9	3719.2	3075.9	2376.6	1951.0	1765.6	1730.8	1743.2	1740.8	1740.8
15°	4559.1	4226.8	3545.0	2647.8	1922.4	1693.5	1697.2	1738.3	1776.8	1783.1	1783.1
17.5°	4636.2	4221.9	3292.4	2218.6	1649.9	1632.5	1689.7	1747.0	1781.8	1786.8	1786.8
20°	4719.6	4198.2	2973.8	1814.2	1530.5	1593.9	1656.1	1700.9	1722.1	1727.1	1727.1
22.5°	4769.4	4131.0	2627.9	1535.5	1454.6	1533.0	1574.0	1620.1	1622.6	1582.7	1581.5
25°	4761.9	4005.4	2233.5	1356.3	1373.7	1442.1	1494.4	1462.0	1422.2	1399.8	1396.1
27.5°	4714.6	3816.2	1831.6	1220.6	1277.9	1355.0	1338.9	1311.5	1301.5	1276.6	1274.2
30°	4654.9	3583.6	1470.7	1114.9	1178.3	1249.3	1224.4	1221.9	1211.9	1184.6	1184.6
32.5°	4597.6	3343.4	1198.2	1036.5	1114.9	1119.9	1154.7	1157.2	1152.2	1104.9	1100.0
35°	4581.5	3103.3	1014.1	974.3	1052.7	1050.2	1100.0	1098.7	1012.9	946.9	945.7
37.5°	4630.0	2859.4	904.6	923.3	966.8	999.2	1039.0	966.8	938.2	898.4	895.9
40°	4733.3	2634.2	848.6	893.4	912.1	959.3	897.1	902.1	894.6	864.8	861.0
42.5°	4870.1	2442.5	817.5	883.4	881.0	893.4	825.0	844.9	856.1	833.7	829.9
45°	5002.0	2275.8	801.3	846.1	858.6	786.4	772.7	791.4	808.8	800.1	796.3
47.5°	5099.1	2131.5	792.6	795.1	829.9	750.3	727.9	736.6	757.8	761.5	760.3
50°	5129.0	2008.3	782.7	752.8	745.3	714.2	696.8	694.3	719.2	736.6	739.1
52.5°	5071.7	1898.8	756.5	715.5	679.4	684.4	678.1	665.7	690.6	714.2	716.7
55°	4987.1	1836.6	715.5	679.4	637.1	657.0	659.5	648.3	664.5	680.6	680.6
57.5°	4993.3	1872.7	675.6	645.8	599.7	625.9	639.6	634.6	634.6	647.0	648.3
60°	5034.4	1924.9	649.5	603.5	562.4	589.8	620.9	615.9	604.7	620.9	620.9
62.5°	4916.2	1855.2	632.1	562.4	522.6	555.0	592.3	589.8	577.3	603.5	606.0
65°	4567.8	1668.6	612.2	511.4	482.8	520.1	552.5	561.2	550.0	584.8	591.0
67.5°	3828.7	1403.6	573.6	462.9	443.0	477.8	508.9	521.4	512.6	553.7	558.7
70°	2854.4	1136.0	512.6	409.4	394.4	425.5	454.2	459.1	460.4	508.9	513.9
72.5°	1820.4	883.4	431.8	349.6	338.4	362.1	383.2	403.1	411.9	457.9	456.7
75°	1015.3	657.0	347.2	296.1	276.2	294.9	319.8	343.4	368.3	435.5	443.0
77.5°	584.8	461.6	275.0	237.7	214.0	233.9	255.1	288.7	363.3	421.8	414.3
80°	329.7	299.9	207.8	174.2	159.3	174.2	190.4	253.8	286.2	311.1	314.8
82.5°	154.3	168.0	141.8	107.0	107.0	117.0	131.9	196.6	216.5	176.7	154.3
85°	56.0	75.9	69.7	54.7	48.5	47.3	82.1	112.0	69.7	62.2	53.5
87.5°	14.9	21.2	19.9	13.7	7.5	6.2	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)