

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: P640703

Luminaire Tested: GWS-SA5E-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37640.6 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

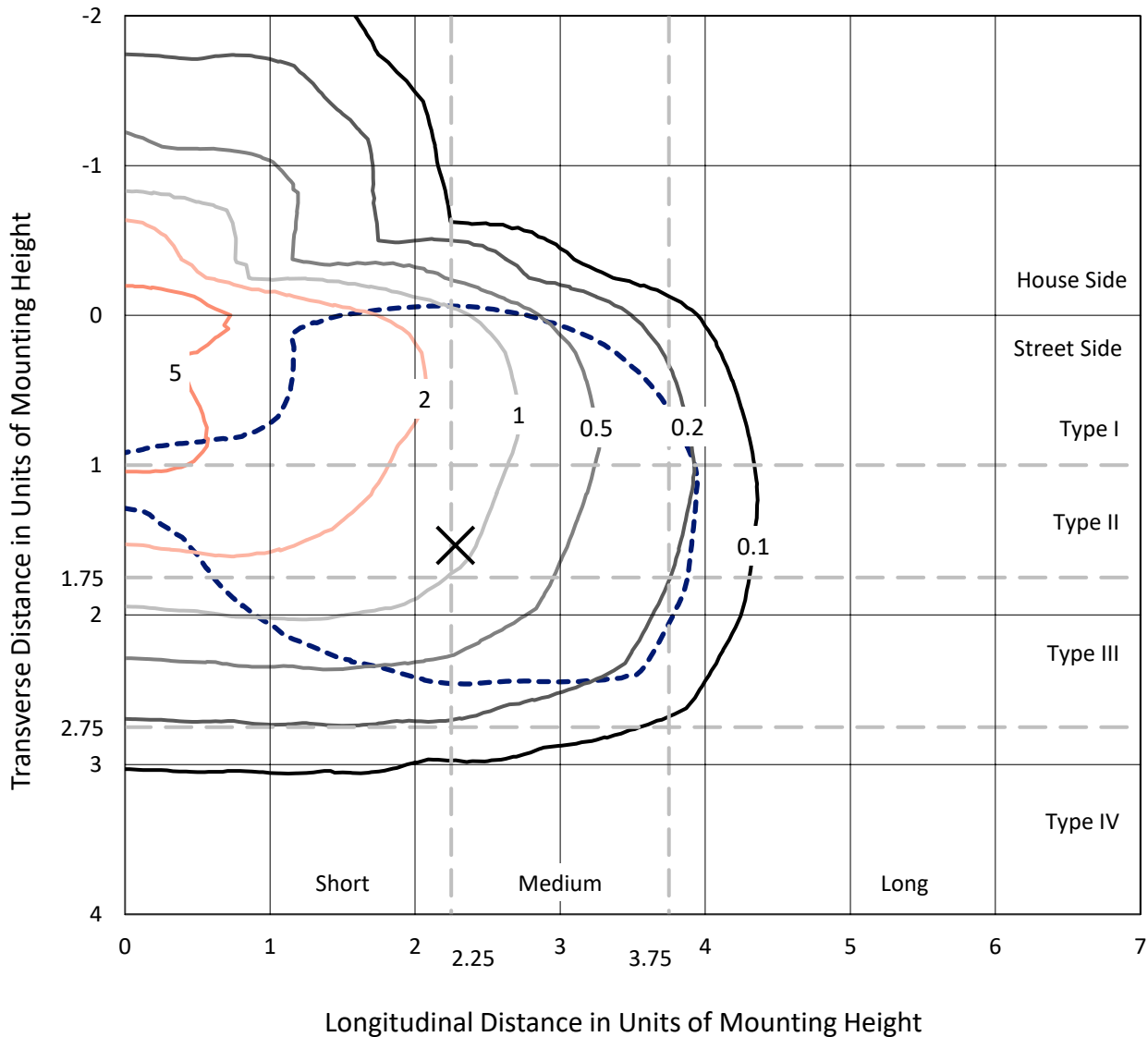
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

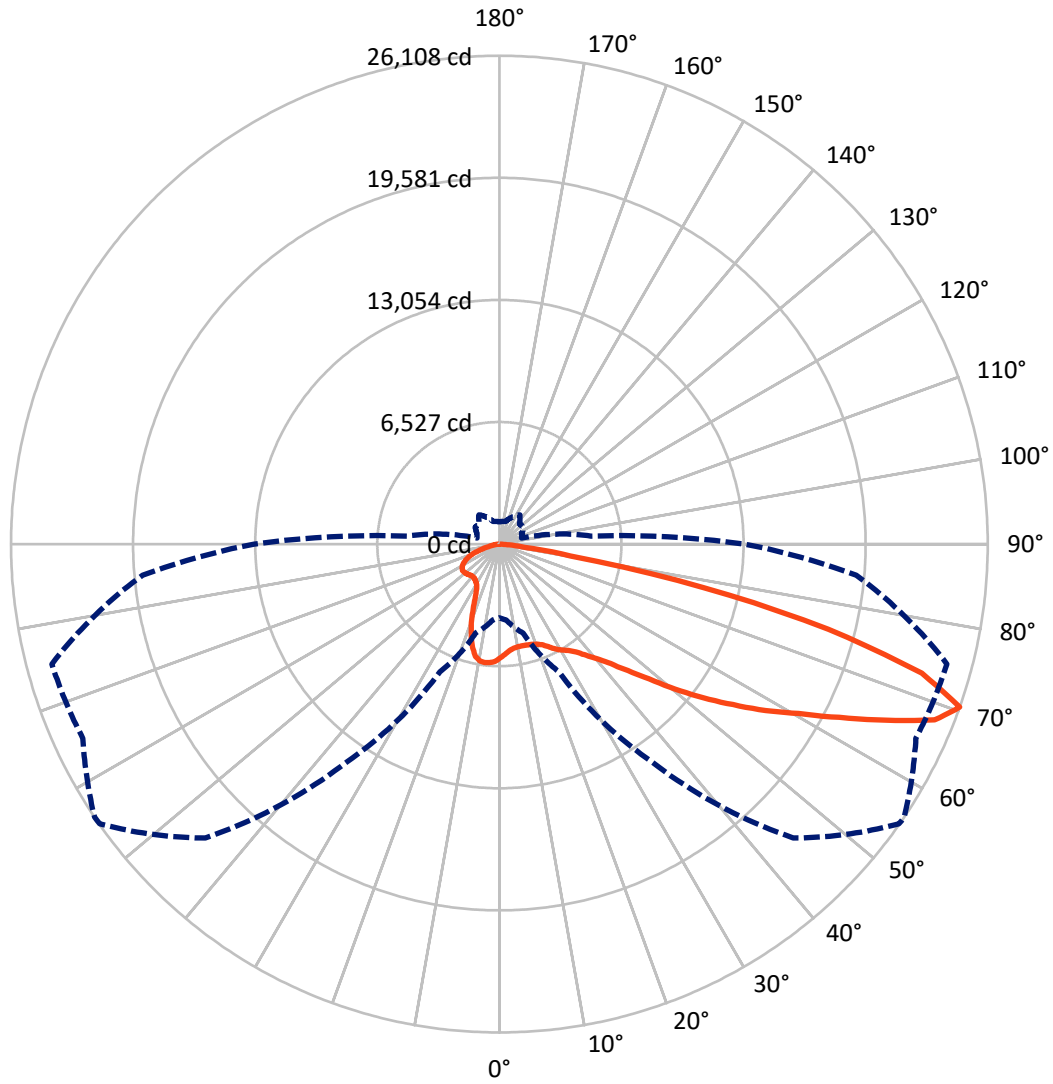
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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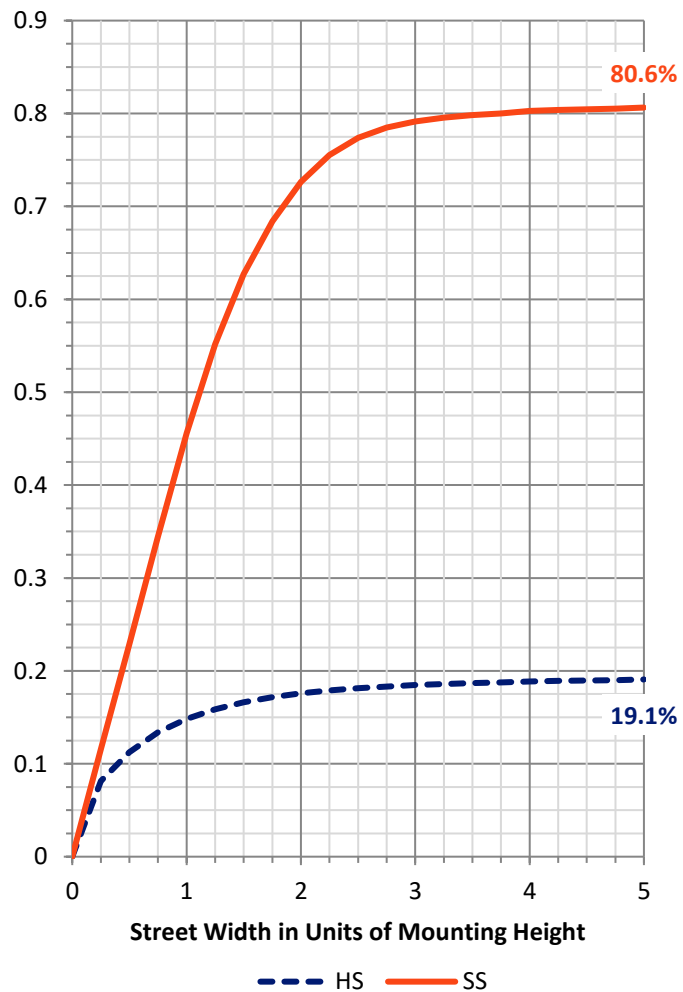
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7236.5	0.0	7236.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	30404.1	0.0	30404.1
	% Fixture	80.8	0.0	80.8
Total	Lumens	37640.6	0.0	37640.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.2	1.5
10°-20°	1523.4	4.0
20°-30°	2518.6	6.7
30°-40°	3765.7	10.0
40°-50°	5603.9	14.9
50°-60°	7967.1	21.2
60°-70°	9867.5	26.2
70°-80°	5448.5	14.5
80°-90°	383.7	1.0
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°	37640.6	100.0
0°-180°	37640.6	100.0

Coefficient of Utilization



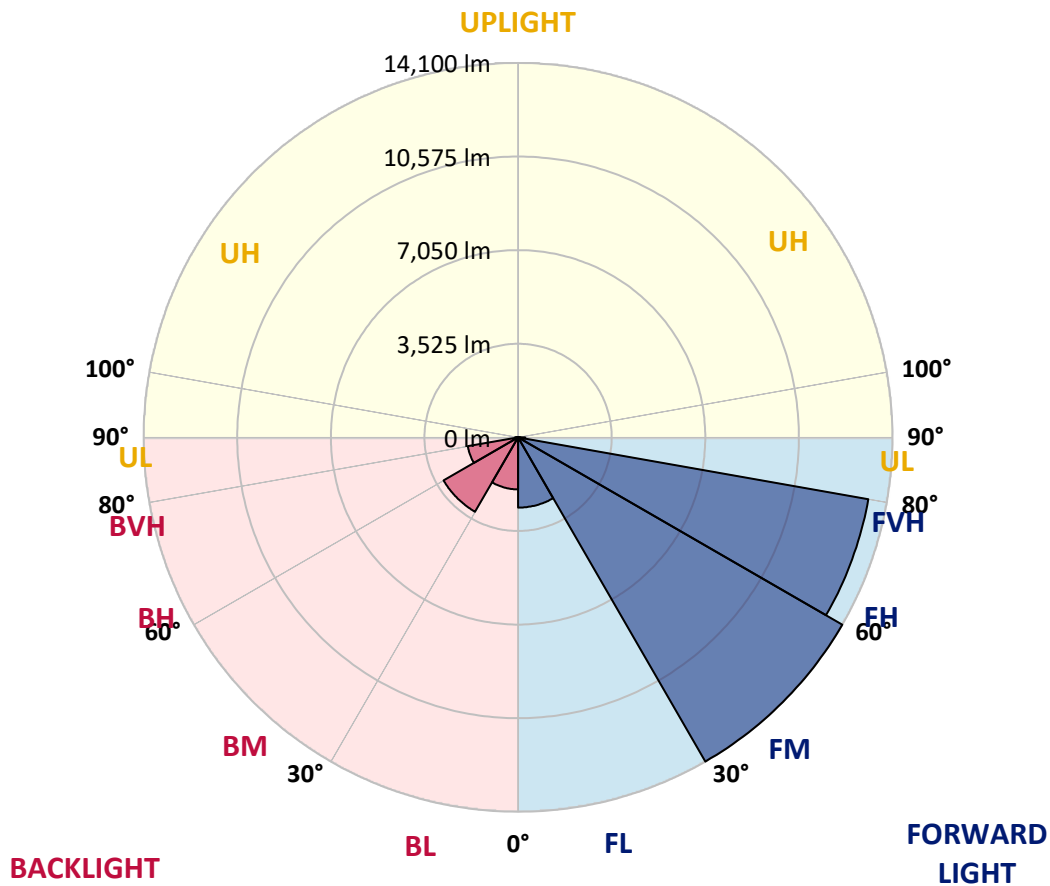
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2645.3	7.0			
FM (30°-60°)	14099.6	37.5			
FH (60°-80°)	13392.5	35.6			G5
FVH (80°-90°)	266.7	0.7			G3/500
BL (0°-30°)	1959.0	5.2	B3/2500		
BM (30°-60°)	3237.0	8.6	B3/5000		
BH (60°-80°)	1923.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	117.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8
2.5°	5685.6	5653.7	5690.9	5709.5	5757.3	5826.3	5887.3	5890.0	5921.8	5998.8	6073.1
5°	5428.1	5412.2	5422.8	5478.5	5529.0	5616.6	5709.5	5717.4	5807.7	5959.0	6107.6
7.5°	5229.0	5207.8	5247.6	5319.3	5383.0	5481.2	5603.3	5613.9	5741.3	5969.6	6197.9
10°	4942.4	4926.4	5000.8	5096.3	5234.3	5396.3	5558.2	5571.4	5738.7	6038.6	6357.1
12.5°	4817.6	4817.6	4849.5	4939.7	5091.0	5306.0	5550.2	5571.4	5781.1	6144.8	6561.5
15°	5011.4	5024.7	4998.1	4992.8	5053.9	5258.2	5560.8	5592.7	5860.8	6253.6	6763.2
17.5°	5401.6	5414.8	5345.8	5237.0	5176.0	5303.4	5600.6	5635.2	5945.7	6373.1	6980.9
20°	5948.4	5964.3	5813.0	5645.8	5436.1	5433.4	5677.6	5709.5	6054.5	6503.1	7211.8
22.5°	6588.1	6598.7	6407.6	6142.1	5821.0	5675.0	5810.3	5842.2	6195.2	6683.6	7461.3
25°	7328.6	7360.5	7129.5	6744.7	6309.4	6006.8	6030.6	6067.8	6447.4	6925.2	7756.0
27.5°	8119.6	8159.4	7894.0	7469.3	6869.4	6373.1	6314.7	6346.5	6715.5	7073.8	7912.6
30°	8929.2	8958.4	8692.9	8207.2	7472.0	6787.1	6553.6	6572.1	6832.3	7145.5	8071.8
32.5°	9829.0	9805.1	9550.3	8990.2	8167.4	7283.5	6776.5	6771.2	6962.3	7288.8	8300.1
35°	10673.1	10707.6	10436.8	9818.4	8931.8	7896.6	7111.0	7089.7	7238.4	7522.4	8621.3
37.5°	11695.0	11684.4	11360.6	10691.7	9698.9	8483.3	7580.8	7543.6	7596.7	7886.0	9069.9
40°	12424.9	12499.3	12289.6	11665.8	10596.1	9205.2	8130.2	8047.9	8061.2	8334.6	9669.7
42.5°	13022.2	13091.2	13112.4	12714.3	11623.3	10097.1	8815.0	8732.8	8740.7	9128.3	10407.6
45°	13481.4	13574.3	13874.2	13757.4	12780.6	11127.0	9741.4	9656.5	9661.8	10091.8	11299.5
47.5°	13669.8	13770.7	14378.5	14657.2	14009.6	12358.6	10893.4	10768.6	10787.2	11262.3	12318.8
50°	13608.8	13744.1	14567.0	15350.0	15039.5	13611.4	12271.0	12183.4	12111.7	12801.9	13425.6
52.5°	13083.2	13231.9	14548.4	15790.6	15880.9	14795.3	13693.7	13643.3	13627.4	14436.9	14662.5
55°	11535.7	11785.2	13908.7	15907.4	16539.2	15910.1	15235.9	15150.9	15233.2	16188.8	15912.7
57.5°	10678.4	10864.2	12655.9	15777.4	17078.0	16971.8	16775.4	16783.4	16876.3	18091.9	17428.4
60°	10190.0	10407.6	11960.4	15421.7	17595.6	18261.8	18386.6	18386.6	18553.8	20143.7	18967.9
62.5°	9542.3	9762.6	11310.1	14736.9	18073.4	19780.1	20411.8	20403.9	20470.2	22344.2	20472.9
65°	8228.4	8432.8	10004.2	13656.6	18306.9	21452.3	22713.1	22689.3	22556.5	24303.1	21468.3
67.5°	5974.9	6168.7	7663.1	11602.1	17465.5	22800.7	25083.5	25094.1	24300.4	25537.4	21521.3
70°	3939.0	4071.7	4926.4	7535.7	14203.3	22219.4	26076.2	26108.0	24568.5	24767.6	19153.7
72.5°	2457.9	2550.8	3076.4	4493.8	8393.0	17587.6	23528.0	23615.6	22102.6	21765.5	15737.5
75°	1632.4	1696.1	2046.5	2619.8	3883.3	9518.4	17884.9	18166.3	17715.0	17062.1	10965.1
77.5°	982.1	1035.2	1303.3	1664.3	1720.0	3718.7	10439.5	11166.8	11230.5	8907.9	4592.0
80°	448.6	509.6	719.3	950.3	915.7	1295.3	3681.6	3851.4	4544.2	2829.5	1449.3
82.5°	265.4	292.0	477.8	472.5	390.2	629.1	1324.5	1359.0	1154.6	1035.2	618.5
85°	106.2	124.8	201.7	177.8	143.3	204.4	499.0	522.9	501.7	451.2	228.3
87.5°	0.0	0.0	0.0	0.0	2.7	5.3	45.1	47.8	69.0	124.8	69.0
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°	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8	6075.8
2.5°	6120.9	6105.0	6184.6	6245.6	6272.2	6298.7	6274.8	6266.9	6266.9	6213.8	6187.3
5°	6187.3	6195.2	6304.0	6354.5	6354.5	6333.2	6269.5	6224.4	6208.5	6139.5	6120.9
7.5°	6312.0	6346.5	6447.4	6444.7	6370.4	6253.6	6094.4	5972.3	5860.8	5813.0	5783.8
10°	6516.4	6561.5	6630.5	6519.0	6312.0	6004.1	5667.0	5401.6	5242.3	5114.9	5114.9
12.5°	6750.0	6792.4	6779.2	6521.7	6094.4	5518.4	5032.6	4727.4	4504.4	4387.6	4387.6
15°	6983.6	7018.1	6874.7	6399.6	5640.5	4873.4	4342.5	3976.2	3782.4	3673.6	3673.6
17.5°	7219.8	7217.1	6914.5	6118.2	5048.5	4159.3	3639.1	3355.1	3288.7	3270.1	3267.5
20°	7448.1	7387.0	6864.1	5648.4	4361.1	3440.0	3110.9	3129.5	3227.7	3270.1	3275.4
22.5°	7705.5	7554.2	6715.5	5048.5	3580.7	2941.0	2962.2	3116.2	3259.5	3323.2	3331.2
25°	7968.3	7697.6	6466.0	4345.1	2927.7	2757.9	2922.4	3095.0	3256.9	3339.2	3347.1
27.5°	8074.5	7697.6	6041.3	3530.3	2580.0	2680.9	2861.4	3028.6	3198.5	3294.0	3312.6
30°	8162.1	7631.2	5446.7	2795.0	2436.7	2606.6	2763.2	2917.1	3084.3	3201.1	3222.4
32.5°	8284.2	7572.8	4727.4	2349.1	2370.3	2534.9	2643.7	2773.8	2925.1	3002.1	2994.1
35°	8427.5	7482.6	3859.4	2136.7	2314.6	2473.8	2550.8	2627.8	2558.8	2556.1	2564.1
37.5°	8631.9	7402.9	3102.9	2041.2	2277.4	2431.4	2495.1	2330.5	2234.9	2195.1	2179.2
40°	8926.5	7371.1	2447.3	1985.4	2272.1	2428.7	2383.6	2128.8	1998.7	1860.7	1858.0
42.5°	9298.1	7347.2	2022.6	1958.9	2290.7	2489.8	2229.6	1996.1	1728.0	1666.9	1661.6
45°	9775.9	7310.0	1810.3	1953.6	2335.8	2537.5	2213.7	1812.9	1629.8	1603.2	1603.2
47.5°	10351.9	7251.6	1714.7	1953.6	2386.2	2516.3	2165.9	1773.1	1584.6	1613.8	1632.4
50°	11012.8	7177.3	1664.3	1948.3	2436.7	2516.3	2065.1	1765.1	1574.0	1725.3	1786.4
52.5°	11718.9	7092.4	1629.8	1927.0	2471.2	2519.0	2070.4	1791.7	1584.6	1751.9	1802.3
55°	12499.3	7079.1	1582.0	1881.9	2481.8	2450.0	2083.7	1850.1	1600.6	1587.3	1589.9
57.5°	13484.0	7238.4	1547.5	1815.6	2439.3	2309.3	2110.2	1892.5	1582.0	1584.6	1603.2
60°	14513.9	7538.3	1576.7	1751.9	2351.7	2176.6	2128.8	1871.3	1491.7	1449.3	1454.6
62.5°	15389.8	7766.6	1600.6	1722.7	2224.3	2059.8	2110.2	1823.5	1441.3	1430.7	1454.6
65°	15756.1	7578.1	1542.2	1661.6	2038.5	1916.4	2070.4	1762.5	1398.8	1359.0	1361.7
67.5°	15350.0	6694.2	1428.0	1526.2	1828.8	1733.3	2006.7	1682.8	1340.4	1292.7	1282.0
70°	13112.4	4918.5	1231.6	1311.2	1574.0	1518.3	1908.5	1579.3	1247.5	1213.0	1189.1
72.5°	10566.9	3482.5	1021.9	1043.2	1234.3	1279.4	1738.6	1449.3	1141.4	1043.2	1008.6
75°	7355.2	2187.2	852.0	830.8	891.9	976.8	1356.4	1202.4	984.8	881.2	849.4
77.5°	3164.0	1122.8	666.2	655.6	594.6	676.9	1040.5	1003.3	825.5	706.1	687.5
80°	1059.1	650.3	480.4	461.9	395.5	475.1	732.6	801.6	647.7	522.9	491.1
82.5°	530.9	376.9	305.2	276.1	265.4	299.9	432.7	499.0	448.6	361.0	305.2
85°	260.1	215.0	167.2	164.6	138.0	130.1	180.5	212.3	201.7	148.6	140.7
87.5°	95.6	84.9	53.1	42.5	26.5	18.6	10.6	10.6	8.0	8.0	8.0
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)