

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: P638201

Luminaire Tested: GWS-SA4E-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29574.1 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

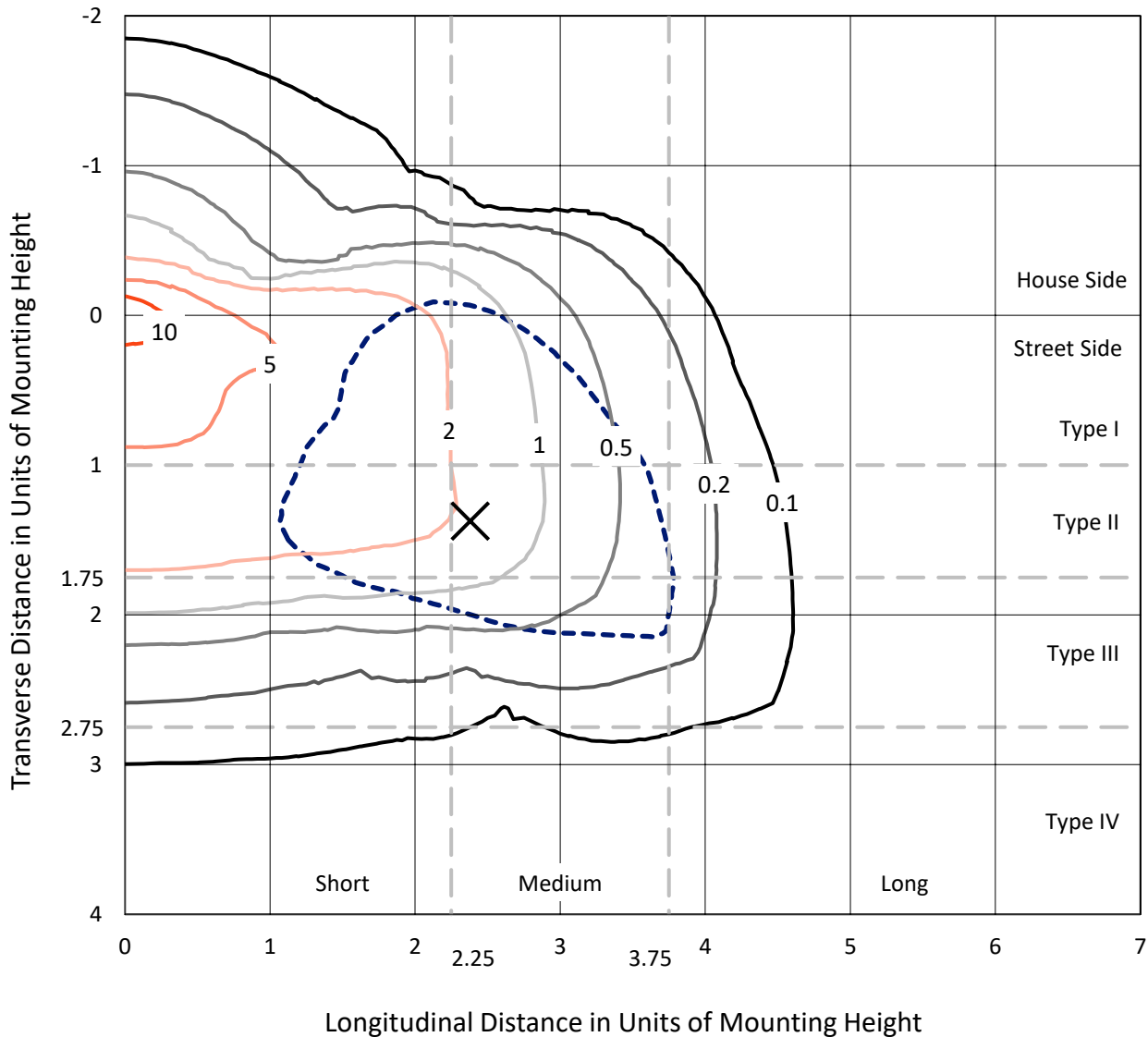
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

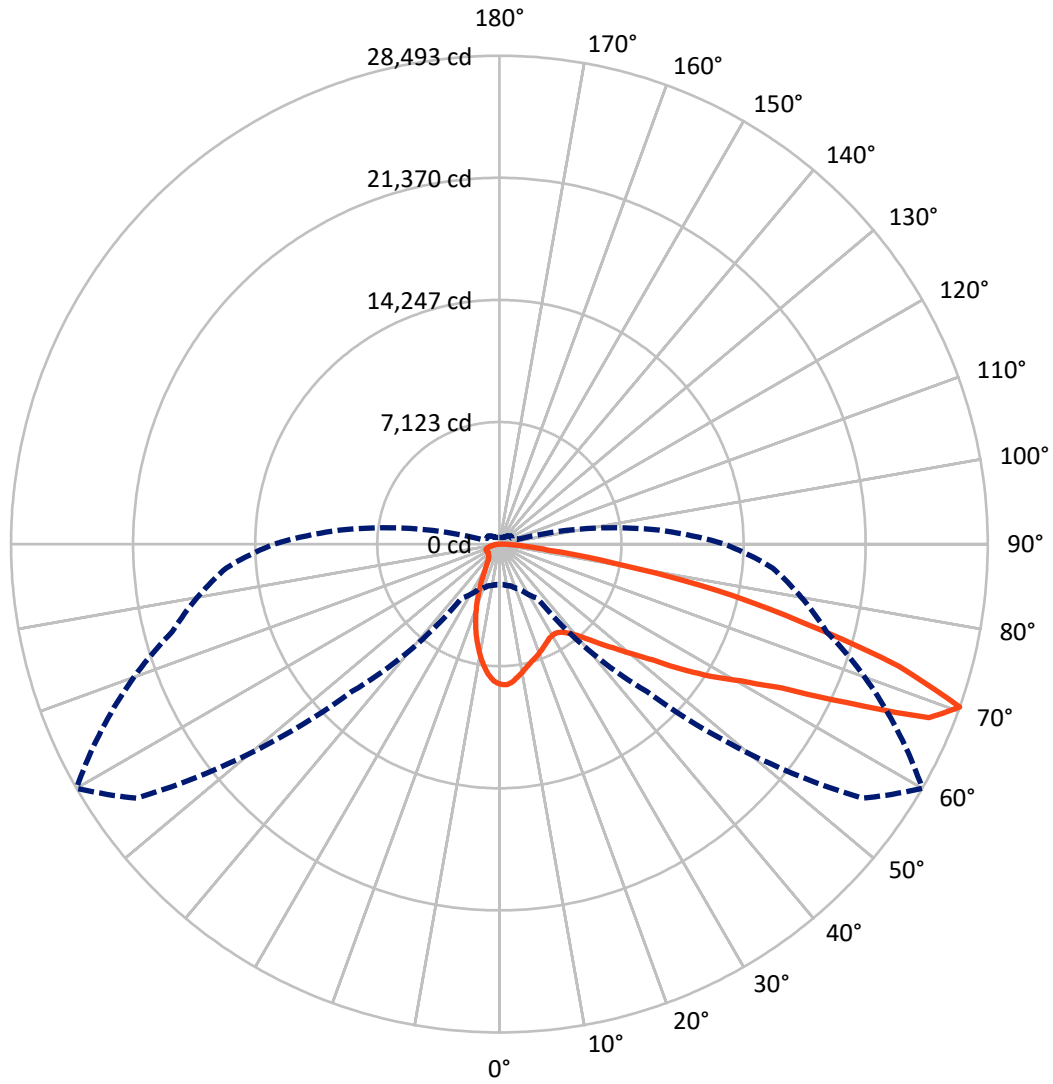
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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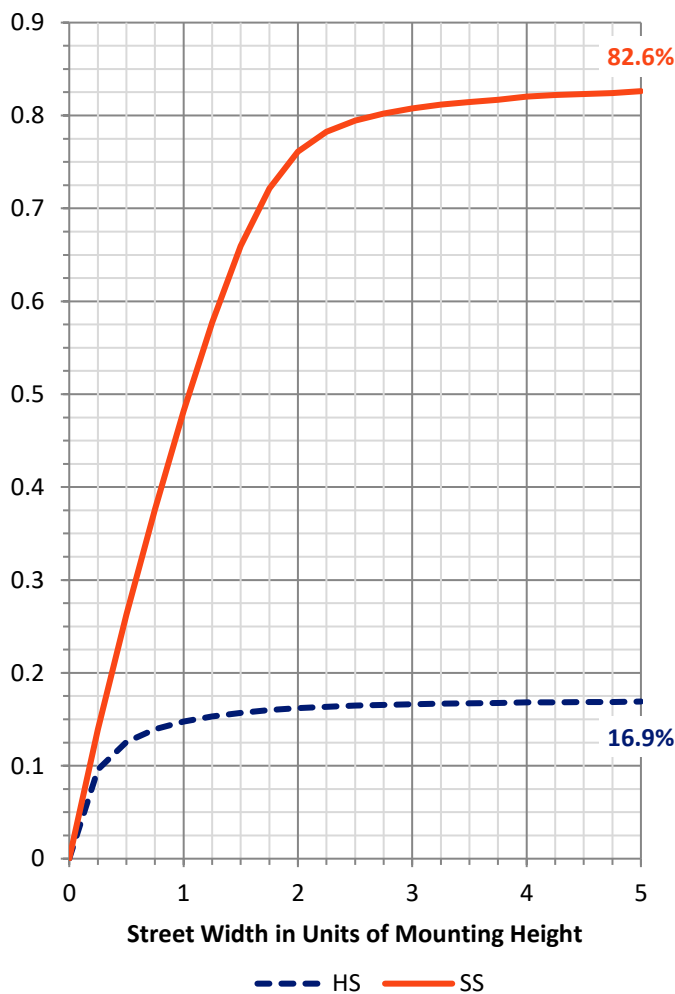
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5057.9	0.0	5057.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24516.2	0.0	24516.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	29574.1	0.0	29574.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.4	2.4
10°-20°	1580.3	5.3
20°-30°	2023.8	6.8
30°-40°	2659.8	9.0
40°-50°	3858.9	13.0
50°-60°	6020.9	20.4
60°-70°	7882.5	26.7
70°-80°	4358.8	14.7
80°-90°	483.7	1.6
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°	29574.1	100.0
0°-180°	29574.1	100.0

Coefficient of Utilization



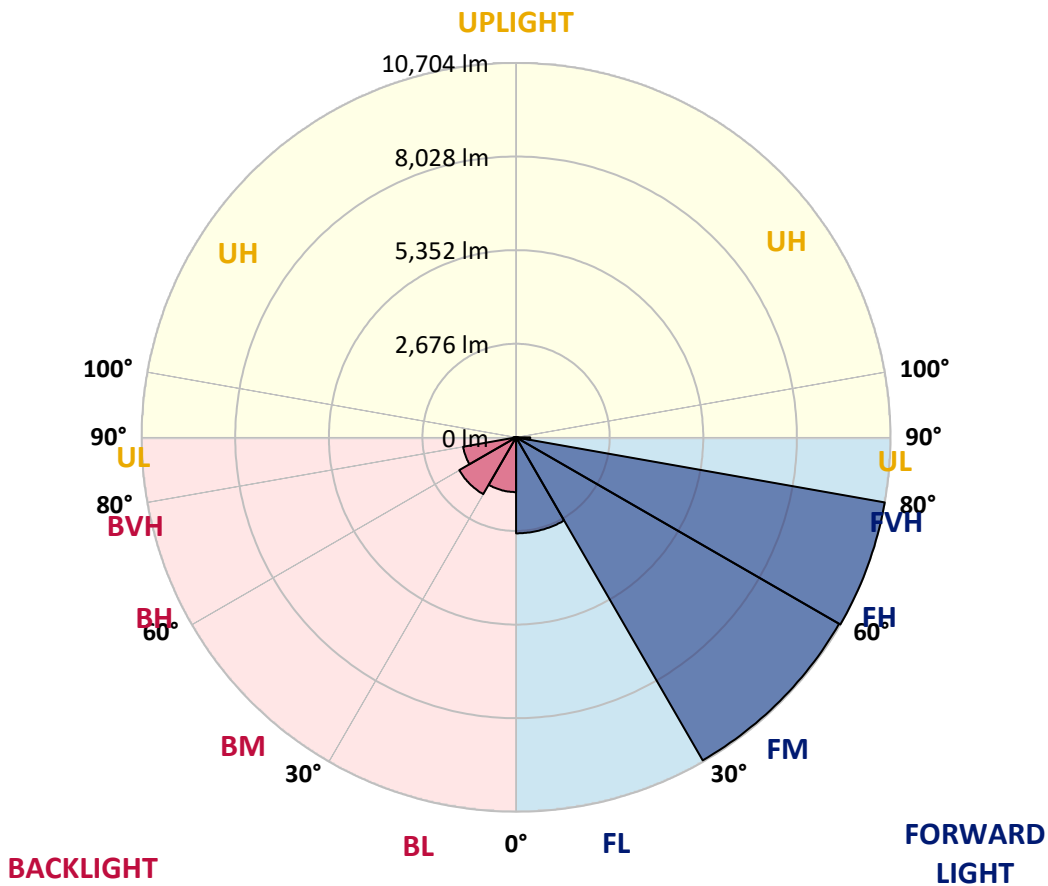
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.7	9.3			
FM (30°-60°)	10664.3	36.1			
FH (60°-80°)	10704.2	36.2			G4/12000
FVH (80°-90°)	403.1	1.4			G3/500
BL (0°-30°)	1564.8	5.3	B3/2500		
BM (30°-60°)	1875.3	6.3	B2/2500		
BH (60°-80°)	1537.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	80.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5
2.5°	8068.9	8077.5	8101.3	8135.9	8170.6	8187.9	8231.1	8218.2	8209.5	8192.2	8170.6
5°	7711.8	7729.1	7750.8	7817.9	7893.6	7954.2	8051.5	8062.4	8066.7	8075.3	8040.7
7.5°	7257.4	7261.8	7313.7	7402.4	7501.9	7605.8	7768.1	7813.5	7852.5	7895.7	7867.6
10°	6755.4	6766.2	6805.2	6932.9	7103.8	7257.4	7476.0	7551.7	7633.9	7729.1	7690.2
12.5°	6344.3	6346.5	6409.2	6545.5	6731.6	6939.3	7212.0	7302.9	7411.1	7560.4	7525.7
15°	6017.6	6017.6	6076.0	6192.8	6407.0	6651.6	6976.1	7093.0	7240.1	7441.3	7380.8
17.5°	5757.9	5760.1	5796.9	5920.2	6110.6	6381.1	6766.2	6924.2	7086.5	7352.6	7261.8
20°	5621.6	5610.8	5617.3	5693.0	5855.3	6117.1	6556.3	6740.3	6958.8	7292.0	7153.6
22.5°	5615.1	5595.6	5567.5	5574.0	5669.2	5885.6	6331.3	6554.2	6829.0	7242.3	7043.2
25°	5725.4	5703.8	5654.0	5597.8	5589.1	5719.0	6119.3	6372.4	6694.8	7220.6	6937.2
27.5°	5911.5	5896.4	5831.5	5747.1	5658.4	5654.0	5959.1	6223.1	6597.5	7242.3	6861.4
30°	6158.2	6132.2	6091.1	5982.9	5848.8	5710.3	5896.4	6143.1	6532.5	7311.5	6829.0
32.5°	6437.3	6422.2	6383.2	6275.1	6132.2	5911.5	5946.2	6160.4	6532.5	7432.7	6835.5
35°	6733.8	6731.6	6731.6	6660.2	6502.3	6227.5	6143.1	6307.5	6632.1	7627.4	6904.7
37.5°	7021.6	7019.4	7088.6	7114.6	6935.0	6638.6	6478.5	6601.8	6850.6	7915.2	7075.7
40°	7255.3	7263.9	7415.4	7545.2	7445.7	7170.9	6945.8	7008.6	7205.5	8324.2	7374.3
42.5°	7491.1	7514.9	7742.1	7971.5	8010.4	7772.4	7545.2	7582.0	7714.0	8865.1	7820.0
45°	7748.6	7759.4	8077.5	8397.8	8586.0	8445.4	8259.3	8309.0	8339.3	9533.8	8484.3
47.5°	7997.4	8025.6	8436.7	8876.0	9233.0	9220.0	9116.1	9101.0	9107.5	10347.3	9269.8
50°	8337.2	8378.3	8860.8	9390.9	9914.6	10154.8	10185.1	10070.4	10022.8	11251.8	10247.8
52.5°	8982.0	8982.0	9414.7	9936.2	10639.5	11234.5	11437.9	11249.7	11098.2	12208.2	11286.4
55°	9789.1	9823.7	10167.8	10589.7	11481.2	12370.5	13058.6	12850.9	12422.4	13249.0	12374.8
57.5°	10148.3	10191.6	10736.8	11392.5	12582.6	13662.3	14616.5	14543.0	13917.6	14330.9	13504.3
60°	9499.1	9590.0	10340.9	11440.1	13580.1	15746.1	16419.0	16204.8	15311.1	15466.9	14729.1
62.5°	7923.9	8023.4	8856.5	10390.6	13441.6	17998.6	19260.1	18470.3	17050.8	16901.5	16360.6
65°	4727.9	4723.6	5725.4	7759.4	11734.4	18623.9	23756.5	22282.9	19738.3	18870.6	18039.7
67.5°	3005.5	2999.0	3208.9	4111.2	7809.2	17091.9	26647.3	27030.3	23388.6	20318.2	18178.2
70°	2371.5	2369.4	2520.8	2932.0	3862.4	12162.8	25842.4	28493.1	25593.6	19766.4	16005.7
72.5°	1728.9	1733.2	1966.9	2455.9	2979.6	6106.3	20926.2	24379.7	23540.1	17449.0	12993.7
75°	1242.0	1248.5	1389.2	1880.4	2748.0	3338.8	13915.5	18331.8	17909.9	13986.9	8938.7
77.5°	789.8	798.4	921.8	1317.8	2220.1	2696.1	8436.7	12941.8	11916.1	7880.6	3178.6
80°	482.5	510.7	614.5	982.4	1774.3	2023.2	4217.3	6818.2	5967.8	2161.6	1068.9
82.5°	248.8	270.5	370.0	608.0	1222.6	1776.5	2386.7	2864.9	1847.9	904.5	569.1
85°	77.9	90.9	129.8	246.7	582.1	1101.4	1579.6	1423.8	848.2	426.3	264.0
87.5°	19.5	19.5	21.6	21.6	23.8	49.8	305.1	322.4	225.0	134.2	108.2
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°	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5	8183.5
2.5°	8127.3	8075.3	8053.7	8051.5	7997.4	7919.6	7867.6	7830.8	7809.2	7804.9	7804.9
5°	7982.3	7915.2	7826.5	7759.4	7614.5	7467.3	7344.0	7274.7	7194.7	7183.9	7181.7
7.5°	7789.7	7692.4	7523.6	7335.3	7082.2	6837.6	6629.9	6489.3	6348.6	6322.7	6314.0
10°	7582.0	7450.0	7162.2	6831.2	6452.5	6086.8	5768.7	5519.9	5355.4	5238.6	5217.0
12.5°	7376.4	7201.2	6779.2	6285.9	5766.6	5266.7	4788.5	4381.7	4087.4	3916.5	3886.2
15°	7183.9	6939.3	6361.6	5731.9	5056.8	4373.1	3695.8	3167.8	2754.5	2607.4	2572.8
17.5°	7008.6	6703.5	5957.0	5158.5	4316.8	3423.2	2652.8	2183.3	1940.9	1867.4	1850.1
20°	6833.3	6461.1	5545.8	4554.8	3531.3	2529.5	1938.8	1718.1	1627.2	1599.1	1590.4
22.5°	6645.1	6195.0	5097.9	3959.8	2737.2	1893.3	1586.1	1488.7	1460.6	1462.7	1460.6
25°	6456.8	5924.5	4628.4	3312.8	2038.3	1536.3	1384.8	1348.1	1354.5	1374.0	1378.3
27.5°	6301.0	5684.3	4167.5	2603.1	1592.6	1322.1	1250.7	1248.5	1272.3	1298.3	1302.6
30°	6188.5	5470.1	3713.1	2001.5	1311.3	1174.9	1146.8	1159.8	1187.9	1207.4	1213.9
32.5°	6108.4	5286.2	3228.4	1573.1	1149.0	1071.1	1058.1	1071.1	1088.4	1107.9	1112.2
35°	6080.3	5152.0	2752.4	1283.1	1038.6	995.4	986.7	993.2	1001.8	1012.7	1017.0
37.5°	6143.1	5085.0	2254.7	1116.5	971.6	945.6	932.6	928.3	930.4	934.8	936.9
40°	6329.1	5115.3	1847.9	1019.2	928.3	904.5	882.8	874.2	872.0	876.3	874.2
42.5°	6649.4	5242.9	1553.6	962.9	893.7	859.0	835.2	826.6	826.6	837.4	837.4
45°	7118.9	5493.9	1341.6	921.8	863.4	820.1	794.1	789.8	798.4	815.8	817.9
47.5°	7807.0	5861.8	1213.9	891.5	835.2	785.5	759.5	757.3	774.6	802.8	804.9
50°	8622.8	6391.9	1144.7	869.9	815.8	757.3	731.4	733.5	753.0	783.3	789.8
52.5°	9605.2	7114.6	1149.0	861.2	804.9	740.0	714.1	709.7	729.2	759.5	766.0
55°	10620.0	7993.1	1233.4	863.4	789.8	731.4	696.7	681.6	698.9	720.5	722.7
57.5°	11736.5	8984.1	1443.3	859.0	770.3	722.7	681.6	647.0	657.8	670.8	677.3
60°	12995.9	10150.4	1895.5	867.7	761.7	703.2	651.3	605.9	603.7	612.4	614.5
62.5°	14679.3	11736.5	2404.0	882.8	781.1	679.4	605.9	558.3	549.6	553.9	556.1
65°	15966.8	12493.8	2243.9	869.9	822.2	662.1	562.6	512.8	495.5	491.2	491.2
67.5°	15443.1	11492.0	1562.3	835.2	841.7	664.3	528.0	465.2	443.6	432.8	430.6
70°	13140.8	9334.7	1086.2	800.6	820.1	660.0	491.2	426.3	398.1	383.0	380.8
72.5°	10382.0	7127.6	878.5	731.4	744.4	595.0	437.1	383.0	359.2	339.7	339.7
75°	6681.9	4349.3	733.5	651.3	608.0	463.1	378.7	341.9	318.1	298.6	298.6
77.5°	2248.2	1614.2	569.1	551.8	454.4	348.4	318.1	294.3	274.8	257.5	255.3
80°	913.1	766.0	417.6	417.6	318.1	266.1	248.8	238.0	225.0	203.4	203.4
82.5°	530.1	465.2	292.1	253.2	212.1	183.9	173.1	162.3	162.3	147.1	147.1
85°	255.3	257.5	175.3	155.8	121.2	106.0	101.7	95.2	93.0	84.4	82.2
87.5°	138.5	140.6	88.7	69.2	47.6	41.1	34.6	32.5	30.3	28.1	28.1
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)