

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: P638187

Luminaire Tested: GWS-SA4E-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22732.3 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

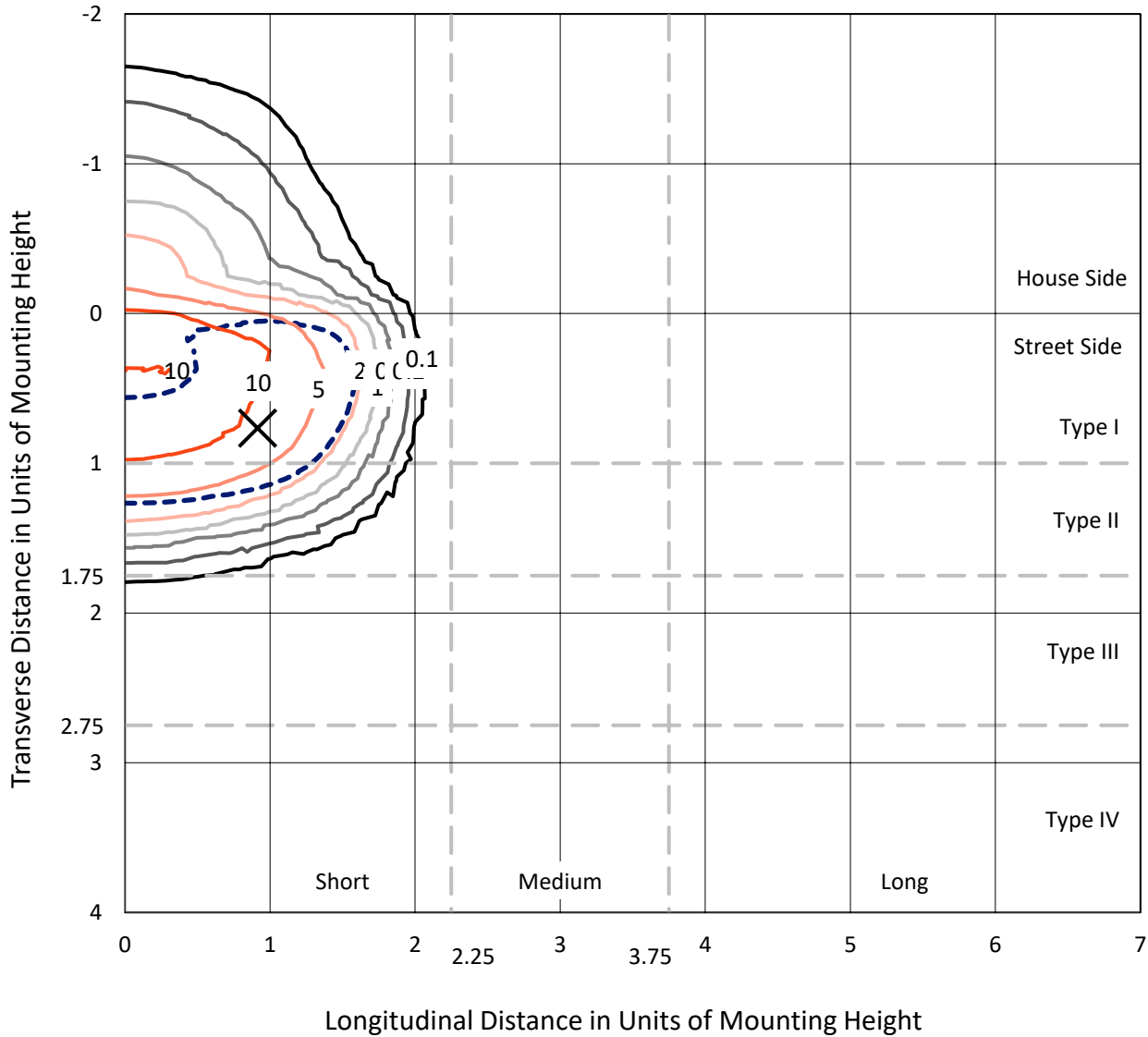
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

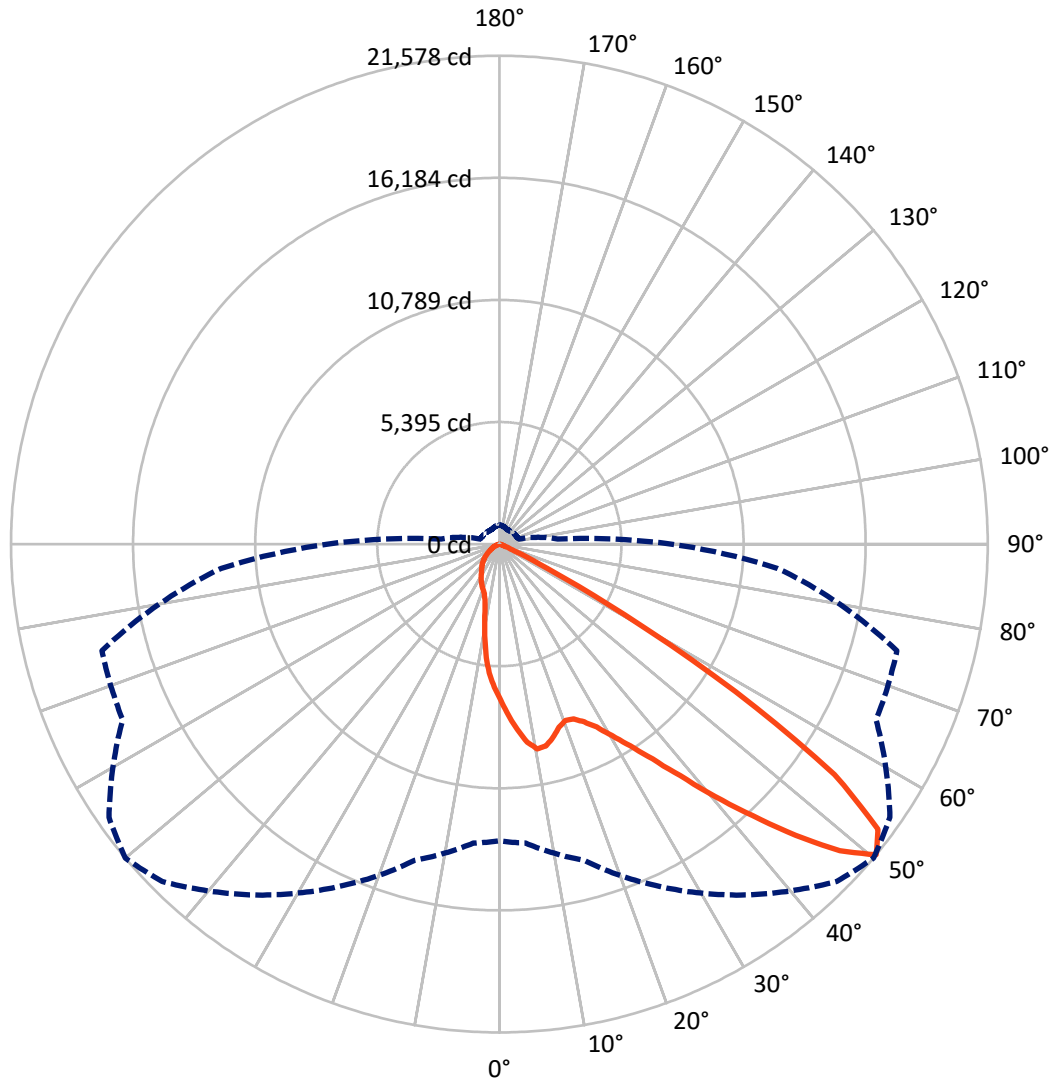
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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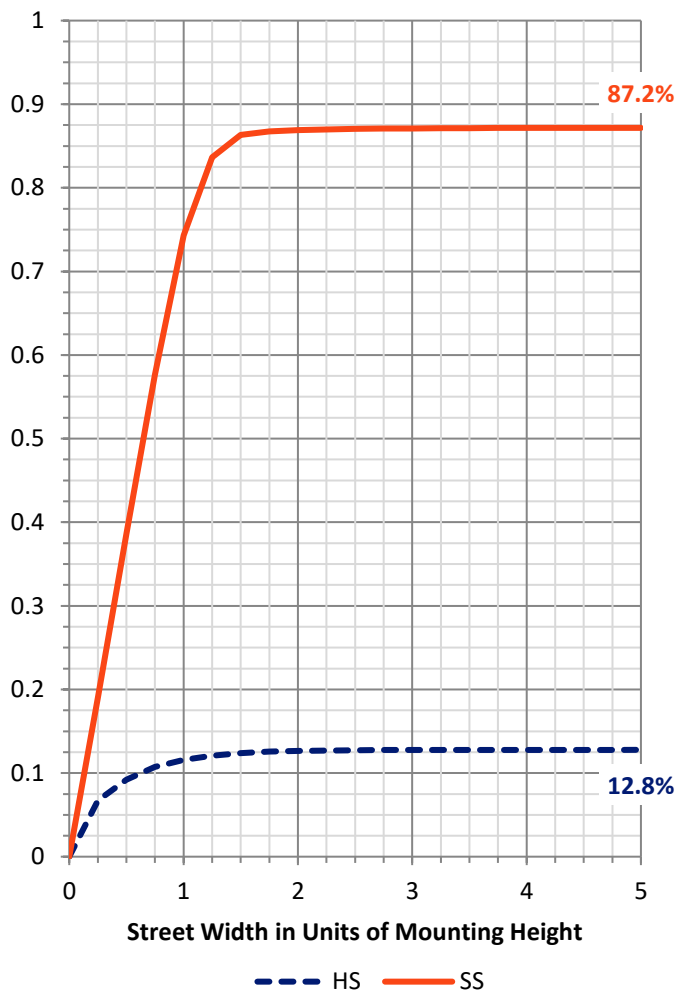
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2920.8	0.0	2920.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	19811.6	0.0	19811.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	22732.3	0.0	22732.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.9	2.8
10°-20°	1648.3	7.3
20°-30°	2720.4	12.0
30°-40°	4489.2	19.7
40°-50°	7102.9	31.2
50°-60°	5377.7	23.7
60°-70°	673.0	3.0
70°-80°	76.1	0.3
80°-90°	5.8	0.0
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°	22732.3	100.0
0°-180°	22732.3	100.0

Coefficient of Utilization



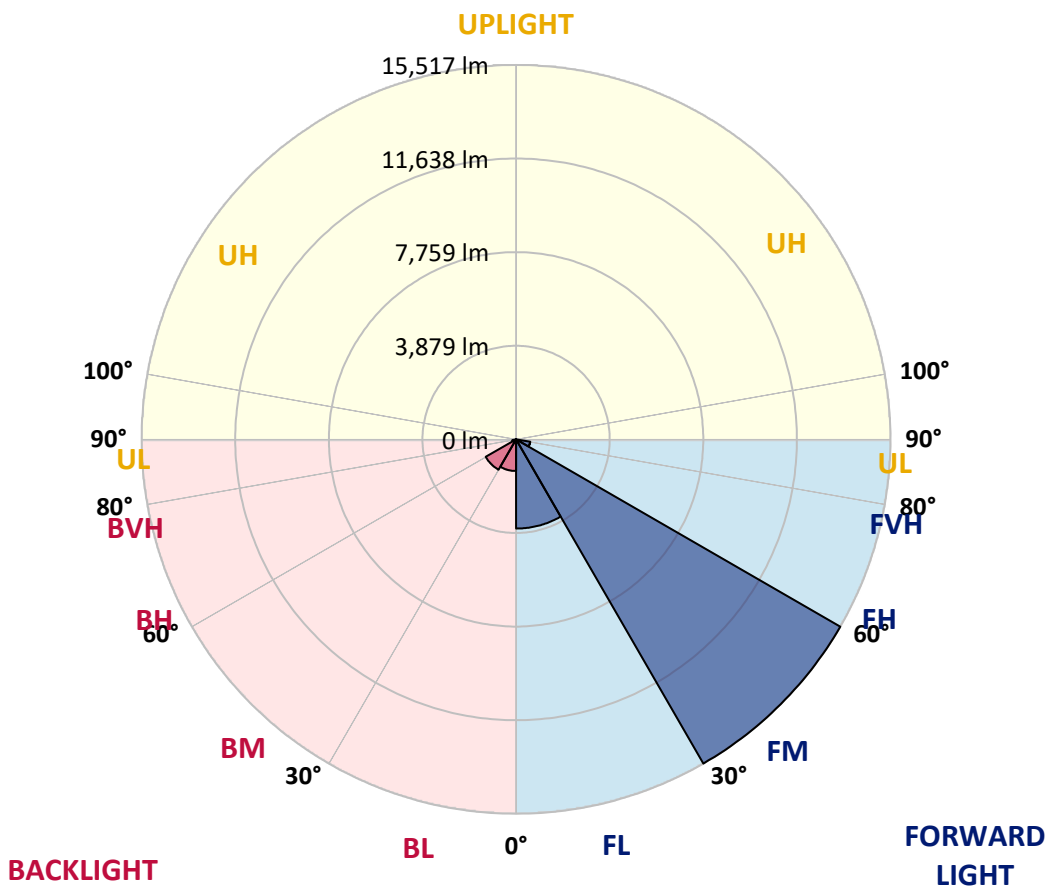
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3696.6	16.3			
FM (30°-60°)	15517.2	68.3			
FH (60°-80°)	595.1	2.6			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1311.0	5.8	B3/2500		
BM (30°-60°)	1452.6	6.4	B2/2500		
BH (60°-80°)	154.1	0.7	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0
2.5°	7847.7	7910.4	7893.1	7810.9	7722.2	7659.4	7562.1	7531.8	7311.1	7157.4	6995.2
5°	8795.3	8814.8	8793.2	8693.7	8537.9	8388.6	8228.5	8135.4	7765.4	7432.2	7092.5
7.5°	9022.5	8998.7	9039.8	9089.6	9068.0	9003.1	8834.3	8732.6	8291.2	7748.1	7233.2
10°	8312.8	8258.8	8412.4	8669.9	8940.3	9245.4	9202.1	9210.8	8804.0	8146.2	7417.1
12.5°	7371.6	7350.0	7464.7	7763.3	8293.4	8985.7	9152.4	9431.5	9273.5	8576.8	7627.0
15°	6958.4	6969.2	7038.4	7226.7	7607.5	8468.6	8868.9	9373.0	9693.3	8994.4	7858.5
17.5°	7021.1	7060.1	7057.9	7120.7	7352.2	8042.4	8509.7	9189.1	10017.8	9474.7	8124.6
20°	7447.4	7486.3	7427.9	7380.3	7458.2	7934.2	8321.5	9003.1	10236.4	9959.4	8405.9
22.5°	8085.7	8131.1	7992.6	7856.3	7806.5	8111.6	8392.9	8927.3	10403.0	10403.0	8656.9
25°	8858.1	8920.8	8706.6	8464.3	8325.8	8485.9	8698.0	9098.3	10573.9	10801.1	8827.8
27.5°	9721.4	9723.6	9539.7	9267.0	9007.4	9026.9	9154.5	9483.4	10762.1	11229.5	8961.9
30°	10692.9	10699.4	10454.9	10128.2	9801.5	9712.7	9820.9	10069.8	11153.8	11768.2	9148.0
32.5°	11947.8	11978.1	11627.6	11147.3	10723.2	10556.6	10619.3	10881.1	11776.9	12443.3	9427.1
35°	13644.1	13676.6	13159.5	12525.5	11850.5	11599.5	11662.2	11926.2	12679.1	13401.8	9872.9
37.5°	15318.8	15362.1	14838.5	14247.8	13321.8	12906.3	12971.2	13222.2	14033.6	14726.0	10586.9
40°	16476.4	16534.8	16372.5	15974.4	15115.4	14570.2	14648.1	14739.0	15524.4	16309.8	11512.9
42.5°	17086.6	17168.8	17238.0	17441.4	16989.2	16532.7	16400.7	16407.2	17041.1	17923.9	12475.8
45°	17123.3	17203.4	17558.2	18343.7	18687.7	18592.5	18352.3	18190.0	18198.7	18999.2	13077.3
47.5°	15933.3	16082.6	16746.9	18285.2	19579.1	20368.9	20247.7	19862.6	18685.5	19070.6	13012.4
50°	13114.0	13261.2	14468.5	16681.9	18930.0	21078.5	21578.3	21061.2	18367.5	18181.4	12343.8
52.5°	9524.5	9539.7	10322.9	12908.5	16299.0	19769.5	20946.6	20896.8	17882.8	17103.9	11430.7
55°	4524.2	4470.2	5350.8	7285.1	11272.8	15989.6	17973.7	18536.2	17194.7	16324.9	10723.2
57.5°	1317.7	1343.6	1735.3	2843.1	5638.5	10219.0	12309.2	13356.4	14113.7	13421.3	8317.2
60°	590.7	592.8	659.9	865.5	1878.1	4753.6	6363.4	7659.4	8438.3	7819.5	4126.1
62.5°	428.4	430.6	456.5	489.0	638.3	1609.8	2386.5	3180.6	3239.0	2120.4	1045.1
65°	357.0	357.0	361.3	361.3	383.0	575.5	724.8	934.7	787.6	584.2	408.9
67.5°	287.8	289.9	294.3	294.3	287.8	287.8	311.6	341.9	365.7	452.2	376.5
70°	225.0	222.9	222.9	225.0	218.5	186.1	201.2	229.3	251.0	352.7	326.7
72.5°	175.3	177.4	175.3	166.6	151.5	110.3	119.0	149.3	160.1	220.7	220.7
75°	132.0	134.1	125.5	95.2	62.7	34.6	45.4	73.6	93.0	108.2	80.1
77.5°	17.3	17.3	13.0	13.0	10.8	13.0	13.0	17.3	26.0	26.0	19.5
80°	2.2	2.2	2.2	4.3	6.5	8.7	8.7	8.7	8.7	10.8	10.8
82.5°	2.2	2.2	2.2	2.2	6.5	6.5	8.7	8.7	8.7	8.7	8.7
85°	0.0	0.0	0.0	2.2	4.3	6.5	6.5	8.7	8.7	8.7	8.7
87.5°	0.0	0.0	0.0	2.2	4.3	6.5	6.5	6.5	8.7	8.7	8.7
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°	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0	6887.0
2.5°	6897.8	6772.3	6620.9	6517.0	6369.9	6272.5	6134.0	6041.0	5960.9	5898.2	5932.8
5°	6900.0	6700.9	6391.5	6127.5	5839.8	5575.8	5292.4	5069.5	4868.3	4777.4	4827.2
7.5°	6943.2	6657.6	6183.8	5714.3	5162.5	4617.3	4106.7	3691.2	3485.7	3388.3	3418.6
10°	7027.6	6638.2	5952.3	5173.4	4277.6	3533.3	3037.8	2756.5	2641.8	2581.3	2592.1
12.5°	7105.5	6625.2	5651.5	4461.5	3375.3	2741.4	2483.9	2445.0	2468.8	2470.9	2468.8
15°	7211.5	6601.4	5279.4	3730.2	2700.3	2369.2	2375.7	2432.0	2488.2	2505.5	2501.2
17.5°	7324.0	6564.6	4799.0	3029.1	2291.3	2261.0	2336.8	2412.5	2468.8	2477.4	2479.6
20°	7440.9	6488.9	4251.6	2473.1	2100.9	2178.8	2263.2	2319.5	2360.6	2373.6	2377.9
22.5°	7495.0	6328.8	3619.8	2075.0	1973.3	2077.1	2139.9	2213.4	2226.4	2178.8	2187.5
25°	7466.8	6058.3	3003.2	1806.7	1845.6	1949.5	2042.5	2005.7	1951.6	1917.0	1927.8
27.5°	7378.1	5699.1	2399.5	1609.8	1709.3	1841.3	1852.1	1811.0	1802.3	1774.2	1782.9
30°	7282.9	5285.9	1930.0	1451.8	1570.8	1709.3	1676.8	1692.0	1694.2	1661.7	1672.5
32.5°	7224.5	4853.1	1536.2	1345.8	1482.1	1508.1	1573.0	1603.3	1605.4	1529.7	1542.7
35°	7244.0	4426.9	1300.4	1259.3	1399.9	1393.4	1484.3	1501.6	1376.1	1272.2	1283.1
37.5°	7401.9	4033.1	1166.2	1192.2	1257.1	1306.9	1376.1	1261.4	1233.3	1185.7	1192.2
40°	7696.2	3697.7	1086.2	1151.1	1159.7	1239.8	1133.8	1148.9	1151.1	1120.8	1127.3
42.5°	8040.2	3418.6	1038.6	1127.3	1105.6	1118.6	1012.6	1042.9	1075.3	1062.4	1064.5
45°	8213.3	3146.0	997.5	1045.1	1051.5	928.2	904.4	936.9	978.0	984.5	986.6
47.5°	8059.7	2886.3	954.2	926.1	969.3	846.0	817.9	828.7	876.3	902.3	906.6
50°	7590.2	2587.8	889.3	820.0	796.2	759.5	733.5	735.7	789.7	835.2	843.8
52.5°	6930.3	2276.2	783.3	694.5	640.4	668.6	675.1	662.1	711.8	757.3	765.9
55°	6289.8	1886.7	621.0	564.7	515.0	575.5	592.8	575.5	590.7	621.0	623.1
57.5°	4429.0	1066.7	476.0	467.4	426.2	493.3	521.4	495.5	469.5	489.0	493.3
60°	2053.3	558.2	365.7	365.7	354.8	424.1	471.7	434.9	385.1	393.8	400.3
62.5°	642.6	352.7	268.3	253.2	289.9	361.3	400.3	363.5	305.1	305.1	313.7
65°	363.5	302.9	212.0	194.7	235.8	289.9	313.7	274.8	222.9	218.5	218.5
67.5°	337.5	287.8	188.2	157.9	166.6	186.1	194.7	168.8	153.6	151.5	153.6
70°	279.1	240.2	151.5	108.2	101.7	99.5	103.9	97.4	93.0	95.2	101.7
72.5°	173.1	145.0	95.2	64.9	56.3	54.1	54.1	54.1	51.9	51.9	51.9
75°	62.7	54.1	43.3	32.5	28.1	26.0	26.0	28.1	26.0	23.8	21.6
77.5°	19.5	17.3	17.3	17.3	15.1	13.0	10.8	10.8	8.7	6.5	6.5
80°	10.8	10.8	10.8	10.8	8.7	8.7	6.5	4.3	2.2	2.2	0.0
82.5°	10.8	10.8	10.8	8.7	8.7	8.7	6.5	4.3	2.2	0.0	0.0
85°	8.7	8.7	8.7	8.7	8.7	8.7	6.5	4.3	2.2	0.0	0.0
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	6.5	4.3	2.2	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)