

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: P637692

Luminaire Tested: GWS-SA4D-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637692
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-SA4D-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: 18191 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

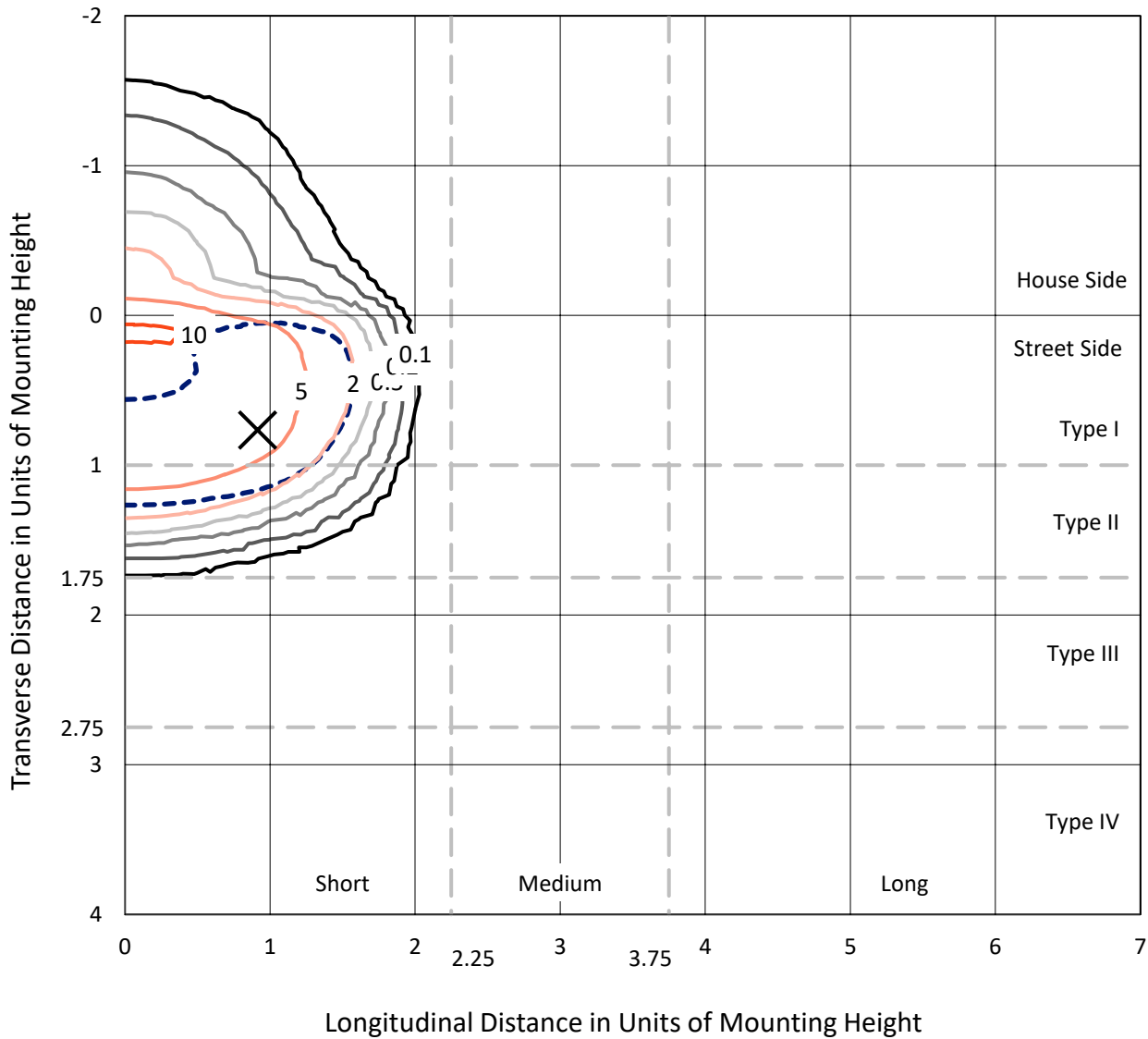
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

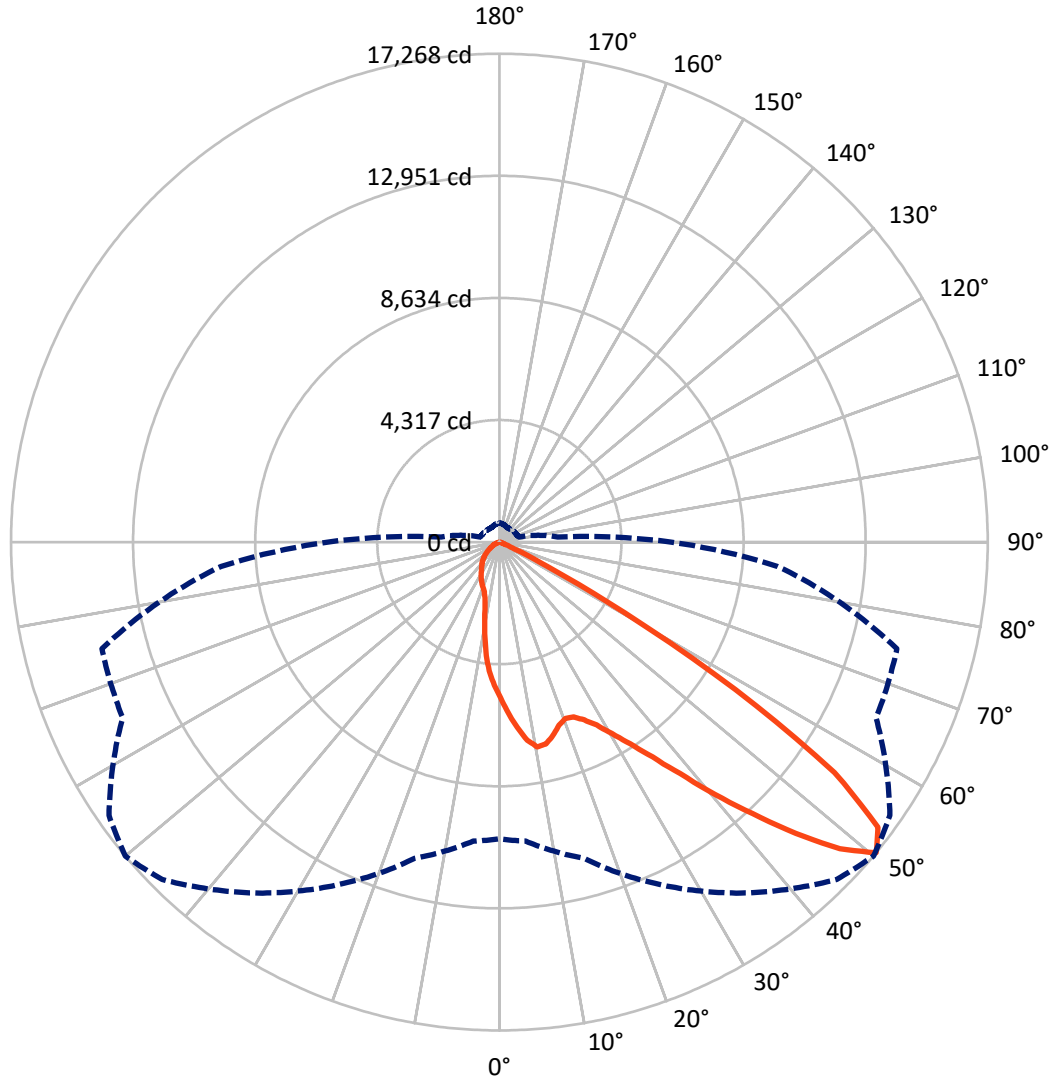
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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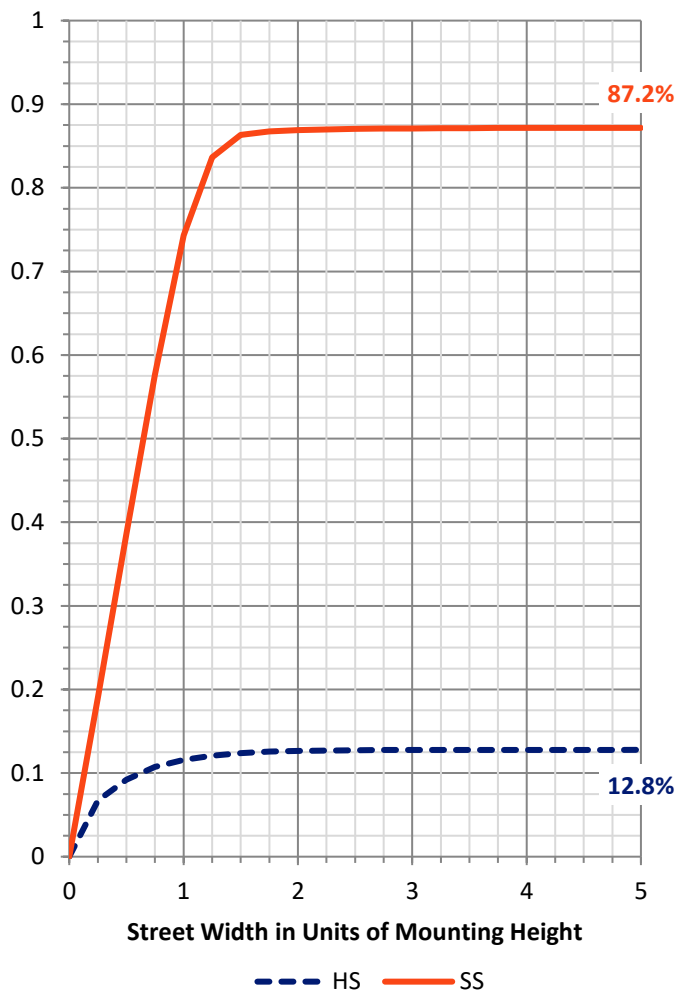
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2337.3	0.0	2337.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15853.7	0.0	15853.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	18191.0	0.0	18191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.2	2.8
10°-20°	1319.0	7.3
20°-30°	2176.9	12.0
30°-40°	3592.3	19.7
40°-50°	5683.9	31.2
50°-60°	4303.4	23.7
60°-70°	538.6	3.0
70°-80°	60.9	0.3
80°-90°	4.6	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°	18191.0	100.0
0°-180°	18191.0	100.0

Coefficient of Utilization



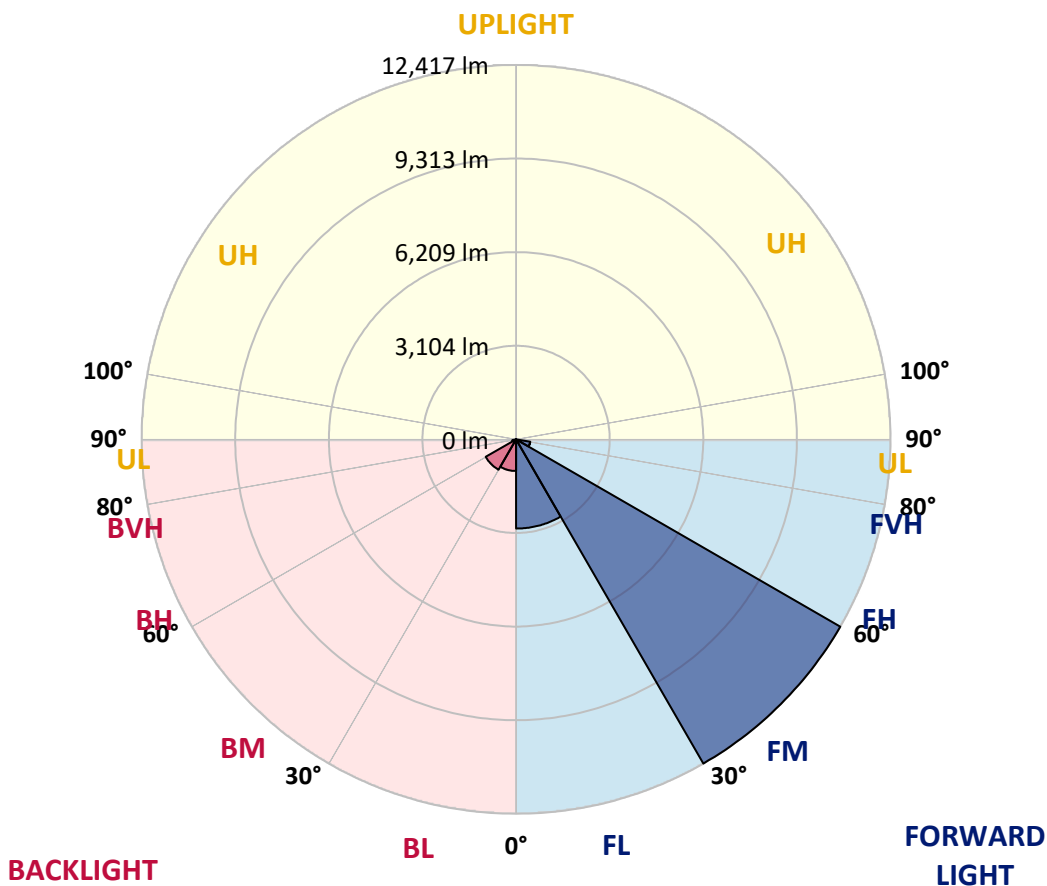
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.1	16.3			
FM (30°-60°)	12417.3	68.3			
FH (60°-80°)	476.2	2.6			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1049.1	5.8	B3/2500		
BM (30°-60°)	1162.4	6.4	B2/2500		
BH (60°-80°)	123.3	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	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°	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1
2.5°	6279.9	6330.1	6316.3	6250.5	6179.5	6129.3	6051.4	6027.1	5850.5	5727.6	5597.7
5°	7038.3	7053.9	7036.5	6956.9	6832.2	6712.8	6584.6	6510.2	6214.1	5947.5	5675.6
7.5°	7220.1	7201.0	7233.9	7273.7	7256.4	7204.5	7069.4	6988.1	6634.8	6200.3	5788.2
10°	6652.2	6608.9	6731.8	6937.9	7154.3	7398.4	7363.8	7370.7	7045.2	6518.8	5935.4
12.5°	5899.0	5881.7	5973.4	6212.4	6636.6	7190.6	7324.0	7547.3	7420.9	6863.4	6103.3
15°	5568.3	5576.9	5632.4	5783.0	6087.7	6776.8	7097.1	7500.6	7756.8	7197.6	6288.6
17.5°	5618.5	5649.7	5647.9	5698.1	5883.4	6435.7	6809.7	7353.4	8016.5	7581.9	6501.5
20°	5959.6	5990.8	5944.0	5905.9	5968.2	6349.2	6659.1	7204.5	8191.4	7969.8	6726.6
22.5°	6470.4	6506.7	6395.9	6286.8	6247.0	6491.1	6716.2	7143.9	8324.7	8324.7	6927.5
25°	7088.5	7138.7	6967.3	6773.4	6662.6	6790.7	6960.4	7280.7	8461.5	8643.3	7064.2
27.5°	7779.3	7781.1	7633.9	7415.7	7208.0	7223.5	7325.7	7588.9	8612.1	8986.1	7171.6
30°	8556.7	8561.9	8366.3	8104.8	7843.4	7772.4	7859.0	8058.1	8925.5	9417.3	7320.5
32.5°	9561.0	9585.2	9304.7	8920.3	8581.0	8447.7	8497.9	8707.4	9424.2	9957.5	7543.9
35°	10918.4	10944.4	10530.6	10023.3	9483.1	9282.2	9332.4	9543.7	10146.2	10724.5	7900.5
37.5°	12258.5	12293.2	11874.2	11401.5	10660.4	10328.0	10379.9	10580.8	11230.1	11784.1	8471.9
40°	13184.9	13231.6	13101.8	12783.2	12095.8	11659.5	11721.8	11794.5	12423.0	13051.5	9213.0
42.5°	13673.1	13738.9	13794.3	13957.1	13595.2	13229.9	13124.3	13129.5	13636.8	14343.2	9983.4
45°	13702.6	13766.6	14050.6	14679.1	14954.4	14878.2	14686.0	14556.2	14563.1	15203.7	10464.8
47.5°	12750.3	12869.7	13401.3	14632.3	15667.7	16299.7	16202.7	15894.6	14952.7	15260.8	10412.8
50°	10494.2	10612.0	11578.1	13349.3	15148.3	16867.6	17267.6	16853.8	14698.1	14549.2	9877.8
52.5°	7621.8	7633.9	8260.7	10329.7	13042.9	15820.1	16762.0	16722.2	14310.3	13687.0	9147.2
55°	3620.4	3577.1	4281.8	5829.7	9020.8	12795.3	14383.0	14833.2	13759.7	13063.7	8581.0
57.5°	1054.4	1075.2	1388.6	2275.1	4512.1	8177.6	9850.1	10688.1	11294.1	10740.1	6655.6
60°	472.7	474.4	528.1	692.6	1502.9	3804.0	5092.1	6129.3	6752.6	6257.4	3301.8
62.5°	342.8	344.6	365.3	391.3	510.8	1288.2	1909.8	2545.2	2592.0	1696.8	836.3
65°	285.7	285.7	289.1	289.1	306.5	460.6	580.0	748.0	630.2	467.5	327.2
67.5°	230.3	232.0	235.5	235.5	230.3	230.3	249.3	273.6	292.6	361.9	301.3
70°	180.1	178.3	178.3	180.1	174.9	148.9	161.0	183.5	200.8	282.2	261.4
72.5°	140.2	142.0	140.2	133.3	121.2	88.3	95.2	119.5	128.1	176.6	176.6
75°	105.6	107.3	100.4	76.2	50.2	27.7	36.4	58.9	74.5	86.6	64.1
77.5°	13.9	13.9	10.4	10.4	8.7	10.4	10.4	13.9	20.8	20.8	15.6
80°	1.7	1.7	1.7	3.5	5.2	6.9	6.9	6.9	6.9	8.7	8.7
82.5°	1.7	1.7	1.7	1.7	5.2	5.2	6.9	6.9	6.9	6.9	6.9
85°	0.0	0.0	0.0	1.7	3.5	5.2	5.2	6.9	6.9	6.9	6.9
87.5°	0.0	0.0	0.0	1.7	3.5	5.2	5.2	5.2	6.9	6.9	6.9
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°	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1
2.5°	5519.8	5419.4	5298.2	5215.1	5097.3	5019.4	4908.6	4834.2	4770.1	4719.9	4747.6
5°	5521.5	5362.2	5114.7	4903.4	4673.1	4461.9	4235.1	4056.7	3895.7	3823.0	3862.8
7.5°	5556.2	5327.6	4948.4	4572.7	4131.2	3694.9	3286.3	2953.8	2789.3	2711.4	2735.7
10°	5623.7	5312.0	4763.2	4139.9	3423.0	2827.4	2430.9	2205.8	2114.1	2065.6	2074.3
12.5°	5686.0	5301.6	4522.5	3570.2	2701.0	2193.7	1987.7	1956.5	1975.6	1977.3	1975.6
15°	5770.9	5282.6	4224.7	2985.0	2160.8	1895.9	1901.1	1946.1	1991.1	2005.0	2001.5
17.5°	5860.9	5253.2	3840.3	2424.0	1833.6	1809.3	1869.9	1930.5	1975.6	1982.5	1984.2
20°	5954.4	5192.6	3402.3	1979.0	1681.2	1743.6	1811.1	1856.1	1889.0	1899.4	1902.8
22.5°	5997.7	5064.4	2896.7	1660.4	1579.1	1662.2	1712.4	1771.3	1781.6	1743.6	1750.5
25°	5975.2	4848.0	2403.2	1445.7	1476.9	1560.0	1634.5	1605.0	1561.8	1534.0	1542.7
27.5°	5904.2	4560.6	1920.2	1288.2	1367.8	1473.4	1482.1	1449.2	1442.3	1419.8	1426.7
30°	5828.0	4229.9	1544.4	1161.8	1257.0	1367.8	1341.9	1354.0	1355.7	1329.7	1338.4
32.5°	5781.3	3883.6	1229.3	1077.0	1186.0	1206.8	1258.8	1283.0	1284.7	1224.1	1234.5
35°	5796.8	3542.5	1040.6	1007.7	1120.2	1115.0	1187.8	1201.6	1101.2	1018.1	1026.7
37.5°	5923.2	3227.4	933.2	954.0	1006.0	1045.8	1101.2	1009.4	986.9	948.8	954.0
40°	6158.7	2959.0	869.2	921.1	928.0	992.1	907.3	919.4	921.1	896.9	902.1
42.5°	6434.0	2735.7	831.1	902.1	884.8	895.2	810.3	834.6	860.5	850.1	851.9
45°	6572.5	2517.5	798.2	836.3	841.5	742.8	723.7	749.7	782.6	787.8	789.5
47.5°	6449.6	2309.7	763.6	741.1	775.7	677.0	654.5	663.1	701.2	722.0	725.5
50°	6073.9	2070.8	711.6	656.2	637.2	607.7	587.0	588.7	632.0	668.3	675.3
52.5°	5545.8	1821.5	626.8	555.8	512.5	535.0	540.2	529.8	569.6	606.0	612.9
55°	5033.3	1509.8	496.9	451.9	412.1	460.6	474.4	460.6	472.7	496.9	498.7
57.5°	3544.2	853.6	380.9	374.0	341.1	394.8	417.3	396.5	375.7	391.3	394.8
60°	1643.1	446.7	292.6	292.6	284.0	339.4	377.5	348.0	308.2	315.1	320.3
62.5°	514.2	282.2	214.7	202.6	232.0	289.1	320.3	290.9	244.1	244.1	251.1
65°	290.9	242.4	169.7	155.8	188.7	232.0	251.1	219.9	178.3	174.9	174.9
67.5°	270.1	230.3	150.6	126.4	133.3	148.9	155.8	135.1	122.9	121.2	122.9
70°	223.4	192.2	121.2	86.6	81.4	79.6	83.1	77.9	74.5	76.2	81.4
72.5°	138.5	116.0	76.2	51.9	45.0	43.3	43.3	43.3	41.6	41.6	41.6
75°	50.2	43.3	34.6	26.0	22.5	20.8	20.8	22.5	20.8	19.0	17.3
77.5°	15.6	13.9	13.9	13.9	12.1	10.4	8.7	8.7	6.9	5.2	5.2
80°	8.7	8.7	8.7	8.7	6.9	6.9	5.2	3.5	1.7	1.7	0.0
82.5°	8.7	8.7	8.7	6.9	6.9	6.9	5.2	3.5	1.7	0.0	0.0
85°	6.9	6.9	6.9	6.9	6.9	6.9	5.2	3.5	1.7	0.0	0.0
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	5.2	3.5	1.7	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)