

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: P639240

Luminaire Tested: GWS-SA5B-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15122.9 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

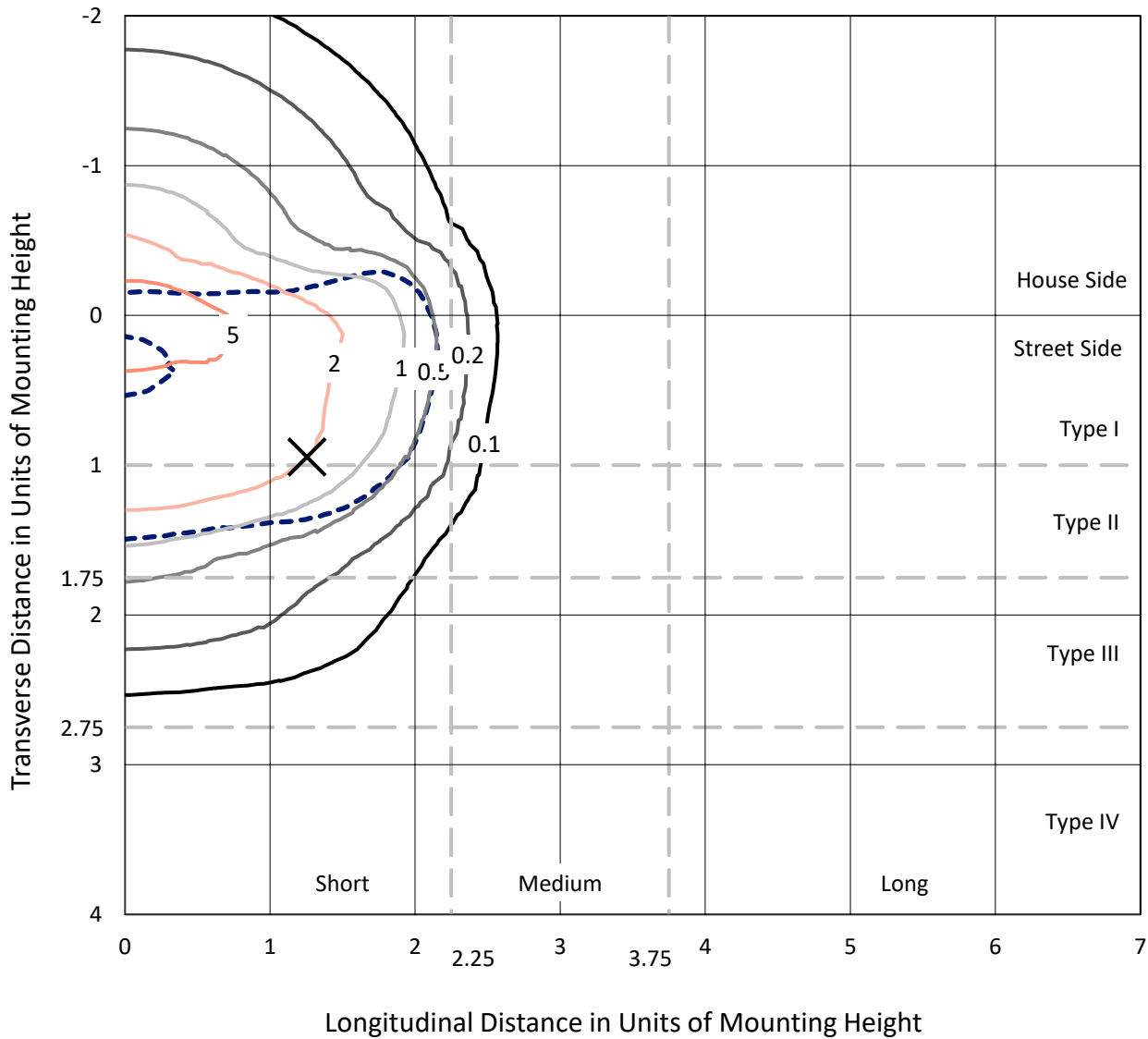
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

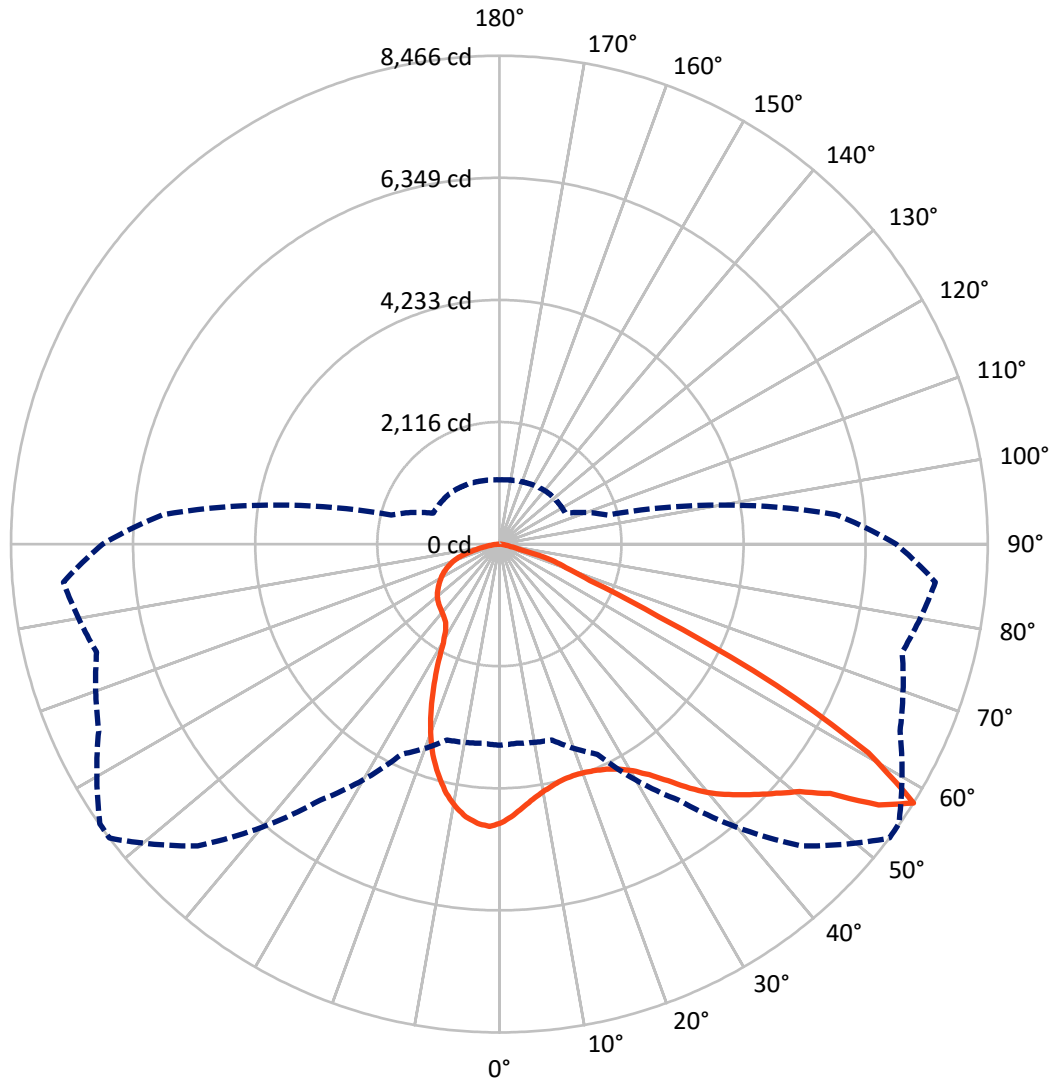
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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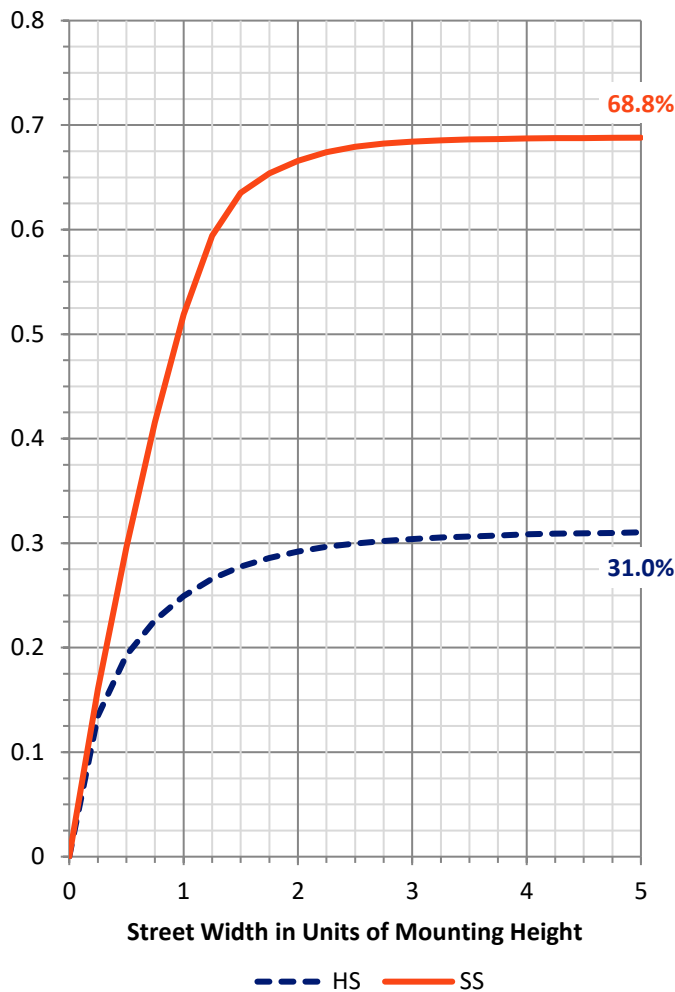
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4728.4	0.0	4728.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	10394.5	0.0	10394.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	15122.9	0.0	15122.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.7	2.9
10°-20°	1145.7	7.6
20°-30°	1688.0	11.2
30°-40°	2362.8	15.6
40°-50°	3106.1	20.5
50°-60°	3641.8	24.1
60°-70°	2145.5	14.2
70°-80°	533.7	3.5
80°-90°	62.6	0.4
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°	15122.9	100.0
0°-180°	15122.9	100.0

Coefficient of Utilization



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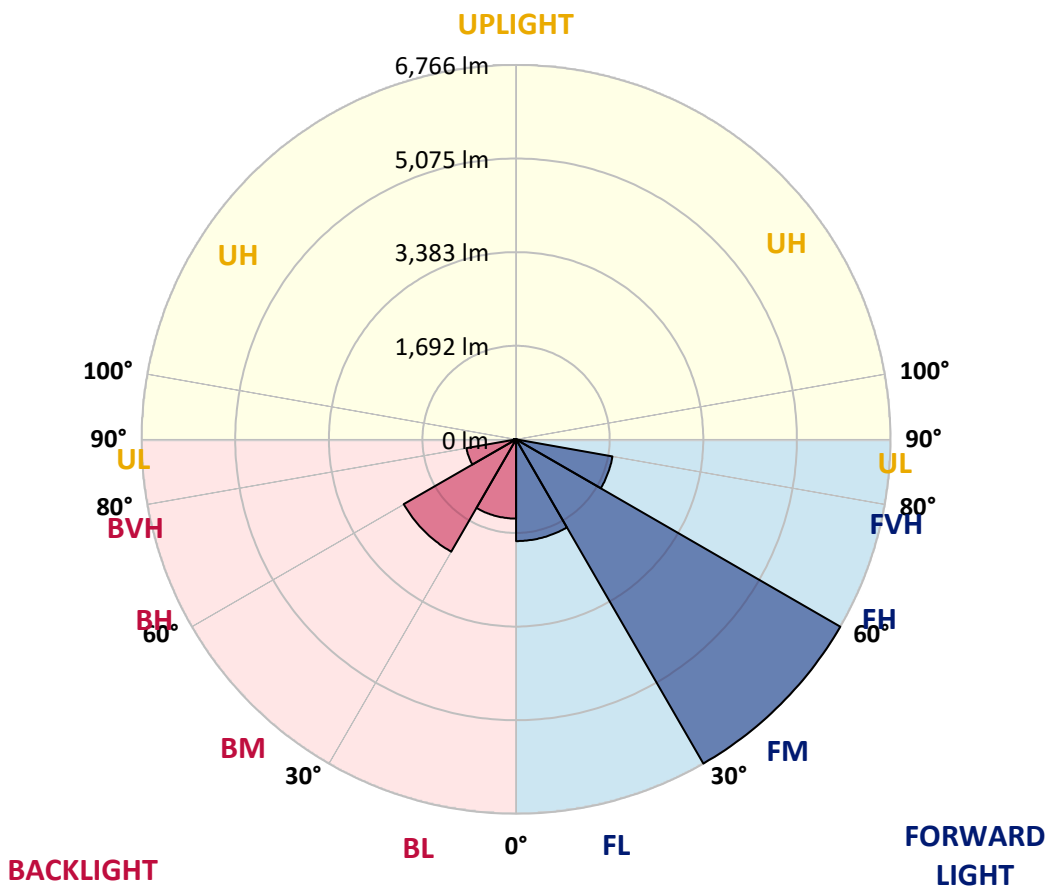
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.6	12.2			
FM (30°-60°)	6766.1	44.7			
FH (60°-80°)	1768.8	11.7			G1/1800
FVH (80°-90°)	21.0	0.1			G1/100
BL (0°-30°)	1431.8	9.5	B3/2500		
BM (30°-60°)	2344.6	15.5	B2/2500		
BH (60°-80°)	910.4	6.0	B2/1000		G2/1000
BVH (80°-90°)	41.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2
2.5°	4551.7	4564.4	4566.9	4606.4	4608.9	4666.2	4704.4	4696.8	4736.2	4784.6	4822.8
5°	4334.0	4335.3	4348.0	4395.1	4420.6	4495.7	4559.3	4559.3	4635.7	4735.0	4820.2
7.5°	4154.5	4153.3	4164.7	4216.9	4258.9	4349.3	4435.8	4446.0	4552.9	4698.0	4836.8
10°	3987.8	3996.7	4009.4	4073.1	4126.5	4238.6	4341.7	4358.2	4493.1	4672.6	4859.7
12.5°	3880.9	3882.2	3901.3	3972.5	4041.3	4160.9	4269.1	4289.5	4444.8	4648.4	4876.2
15°	3812.2	3813.4	3833.8	3912.7	3992.9	4113.8	4224.6	4247.5	4416.8	4644.6	4908.1
17.5°	3781.6	3780.3	3799.4	3878.3	3966.2	4092.2	4210.6	4238.6	4429.5	4673.9	4964.1
20°	3781.6	3782.9	3793.1	3864.3	3953.4	4087.1	4224.6	4258.9	4479.1	4740.1	5050.6
22.5°	3835.1	3840.2	3845.2	3893.6	3963.6	4094.7	4261.5	4307.3	4586.0	4850.8	5163.9
25°	3939.4	3940.7	3945.8	3985.3	4017.1	4116.4	4322.6	4391.3	4752.8	5012.4	5306.5
27.5°	4079.4	4097.3	4102.4	4127.8	4127.8	4169.8	4418.0	4517.3	4978.1	5245.4	5488.5
30°	4275.5	4281.8	4290.7	4318.7	4288.2	4270.4	4558.0	4685.3	5239.0	5526.7	5707.4
32.5°	4447.3	4461.3	4509.7	4555.5	4500.8	4444.8	4764.2	4914.4	5489.8	5819.4	5940.3
35°	4593.7	4628.0	4721.0	4822.8	4784.6	4728.6	5037.9	5194.5	5696.0	6029.4	6146.5
37.5°	4770.6	4797.3	4924.6	5090.1	5124.4	5097.7	5371.4	5483.4	5833.4	6082.9	6258.5
40°	4950.1	4990.8	5155.0	5384.1	5515.2	5534.3	5679.4	5754.5	5880.5	5978.5	6236.9
42.5°	5133.4	5203.4	5428.7	5696.0	5928.9	5972.2	5939.1	5970.9	5865.2	5834.7	6136.4
45°	5357.4	5440.1	5694.7	6035.8	6342.6	6410.0	6193.6	6164.4	5862.7	5780.0	6074.0
47.5°	5622.1	5704.9	5948.0	6345.1	6737.1	6786.8	6454.6	6401.1	5951.8	5864.0	6158.0
50°	5856.3	5913.6	6131.3	6575.5	7105.0	7134.3	6742.2	6677.3	6173.3	6096.9	6420.2
52.5°	5618.3	5611.9	5841.1	6388.4	7295.9	7648.5	7185.2	7122.8	6600.9	6483.8	6826.2
55°	4766.8	4694.2	4899.2	5437.6	6762.6	8105.4	7979.4	7854.7	7171.2	6873.3	7206.8
57.5°	3485.0	3464.7	3514.3	4019.6	5417.2	7397.7	8465.7	8454.2	7663.8	7229.7	7586.1
60°	2725.1	2694.6	2562.2	2576.2	3692.5	5778.7	7346.8	7684.1	7969.2	7443.6	7850.9
62.5°	2419.7	2396.8	2328.0	2138.4	2199.5	3874.5	5385.4	5694.7	6963.7	6574.2	6743.5
65°	2003.4	1997.1	2054.4	2046.7	1843.1	2139.6	3039.5	3351.4	4378.6	4433.3	4378.6
67.5°	1456.1	1444.7	1589.8	1876.2	1774.3	1615.2	1694.1	1802.3	2245.3	2016.2	1815.1
70°	947.0	930.4	1014.5	1355.6	1588.5	1407.8	1220.7	1202.8	1234.7	767.5	829.9
72.5°	635.1	616.1	614.8	745.9	959.7	948.3	945.7	936.8	836.3	605.9	672.1
75°	353.8	338.6	334.8	322.0	343.7	350.0	372.9	385.7	417.5	459.5	509.1
77.5°	59.8	58.6	73.8	94.2	129.8	166.7	206.2	217.7	268.6	318.2	350.0
80°	33.1	34.4	44.5	54.7	72.6	99.3	127.3	134.9	165.5	192.2	217.7
82.5°	17.8	17.8	22.9	29.3	39.5	52.2	68.7	75.1	95.5	112.0	129.8
85°	6.4	6.4	8.9	11.5	16.5	21.6	26.7	30.5	42.0	57.3	64.9
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	5.1	5.1	6.4	11.5	16.5
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°	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2	4829.2
2.5°	4854.6	4820.2	4867.3	4889.0	4896.6	4901.7	4868.6	4845.7	4838.1	4813.9	4799.9
5°	4872.4	4849.5	4894.1	4894.1	4862.2	4829.2	4761.7	4714.6	4681.5	4642.0	4635.7
7.5°	4903.0	4886.4	4910.6	4861.0	4780.8	4691.7	4574.6	4482.9	4409.1	4360.7	4362.0
10°	4943.7	4923.3	4904.2	4793.5	4647.1	4482.9	4303.5	4169.8	4047.6	3991.6	3961.1
12.5°	4970.4	4941.2	4861.0	4677.7	4462.6	4242.4	3989.1	3790.5	3613.6	3533.4	3527.0
15°	5003.5	4950.1	4789.7	4527.5	4228.4	3928.0	3602.1	3325.9	3086.6	2961.9	2955.5
17.5°	5046.8	4959.0	4704.4	4355.7	3981.4	3538.5	3128.6	2781.2	2526.6	2429.8	2446.4
20°	5107.9	4969.2	4607.7	4164.7	3674.7	3095.5	2585.1	2265.7	2167.6	2161.3	2148.6
22.5°	5176.6	4975.5	4500.8	3950.9	3303.0	2623.3	2135.8	1999.6	1998.4	2030.2	2037.8
25°	5254.3	4980.6	4379.8	3701.4	2900.8	2152.4	1888.9	1848.2	1880.0	1939.8	1947.4
27.5°	5353.6	4990.8	4233.5	3427.8	2473.1	1859.6	1752.7	1742.5	1780.7	1836.7	1834.2
30°	5499.9	5027.7	4078.2	3113.4	2034.0	1720.9	1670.0	1671.2	1686.5	1713.2	1717.1
32.5°	5648.9	5085.0	3926.7	2759.5	1782.0	1642.0	1619.1	1616.5	1616.5	1628.0	1630.5
35°	5790.1	5149.9	3762.5	2390.4	1659.8	1596.1	1580.9	1573.2	1569.4	1566.9	1563.0
37.5°	5869.1	5181.7	3602.1	2026.4	1594.9	1565.6	1550.3	1540.1	1526.1	1516.0	1513.4
40°	5834.7	5144.8	3416.3	1754.0	1555.4	1536.3	1518.5	1504.5	1485.4	1476.5	1471.4
42.5°	5720.1	5030.3	3213.9	1625.4	1523.6	1504.5	1482.9	1459.9	1447.2	1439.6	1438.3
45°	5599.2	4891.5	2969.5	1550.3	1493.0	1470.1	1444.7	1419.2	1405.2	1401.4	1400.1
47.5°	5595.4	4822.8	2709.9	1490.5	1456.1	1433.2	1401.4	1375.9	1360.7	1355.6	1350.5
50°	5763.4	4892.8	2417.1	1438.3	1417.9	1393.8	1358.1	1330.1	1311.0	1304.7	1303.4
52.5°	6112.2	5156.3	2154.9	1386.1	1367.0	1339.0	1309.8	1281.7	1258.8	1247.4	1246.1
55°	6488.9	5491.0	1992.0	1332.7	1307.2	1283.0	1256.3	1225.7	1200.3	1182.5	1179.9
57.5°	6878.4	5856.3	1942.4	1265.2	1246.1	1229.6	1197.7	1164.6	1135.4	1118.8	1115.0
60°	7199.2	6170.7	2035.3	1193.9	1183.7	1162.1	1132.8	1101.0	1080.6	1067.9	1065.4
62.5°	6026.9	5023.9	1643.2	1116.3	1116.3	1093.4	1060.3	1037.4	1023.4	1014.5	1011.9
65°	3824.9	3110.8	1121.4	1038.6	1037.4	1006.8	978.8	963.5	957.2	943.2	940.6
67.5°	1666.1	1421.8	958.4	959.7	954.6	921.5	893.5	882.1	869.3	854.1	852.8
70°	864.3	880.8	857.9	871.9	863.0	823.5	796.8	779.0	752.2	737.0	738.2
72.5°	697.5	715.3	740.8	762.4	743.3	711.5	669.5	647.9	613.5	597.0	598.2
75°	532.0	551.1	575.3	598.2	583.0	543.5	516.8	495.1	455.7	436.6	440.4
77.5°	366.6	376.8	406.0	404.8	399.7	388.2	348.8	323.3	282.6	259.7	262.2
80°	227.8	234.2	248.2	254.6	252.0	236.7	204.9	185.8	161.7	147.6	148.9
82.5°	137.5	141.3	154.0	155.3	154.0	142.6	118.4	104.4	89.1	81.5	81.5
85°	70.0	72.6	80.2	80.2	72.6	61.1	54.7	48.4	39.5	35.6	35.6
87.5°	19.1	19.1	24.2	20.4	16.5	15.3	7.6	6.4	2.5	1.3	1.3
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)