

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: P640153

Luminaire Tested: GWS-SA5D-730-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640153
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-SA5D-730-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27809.7 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

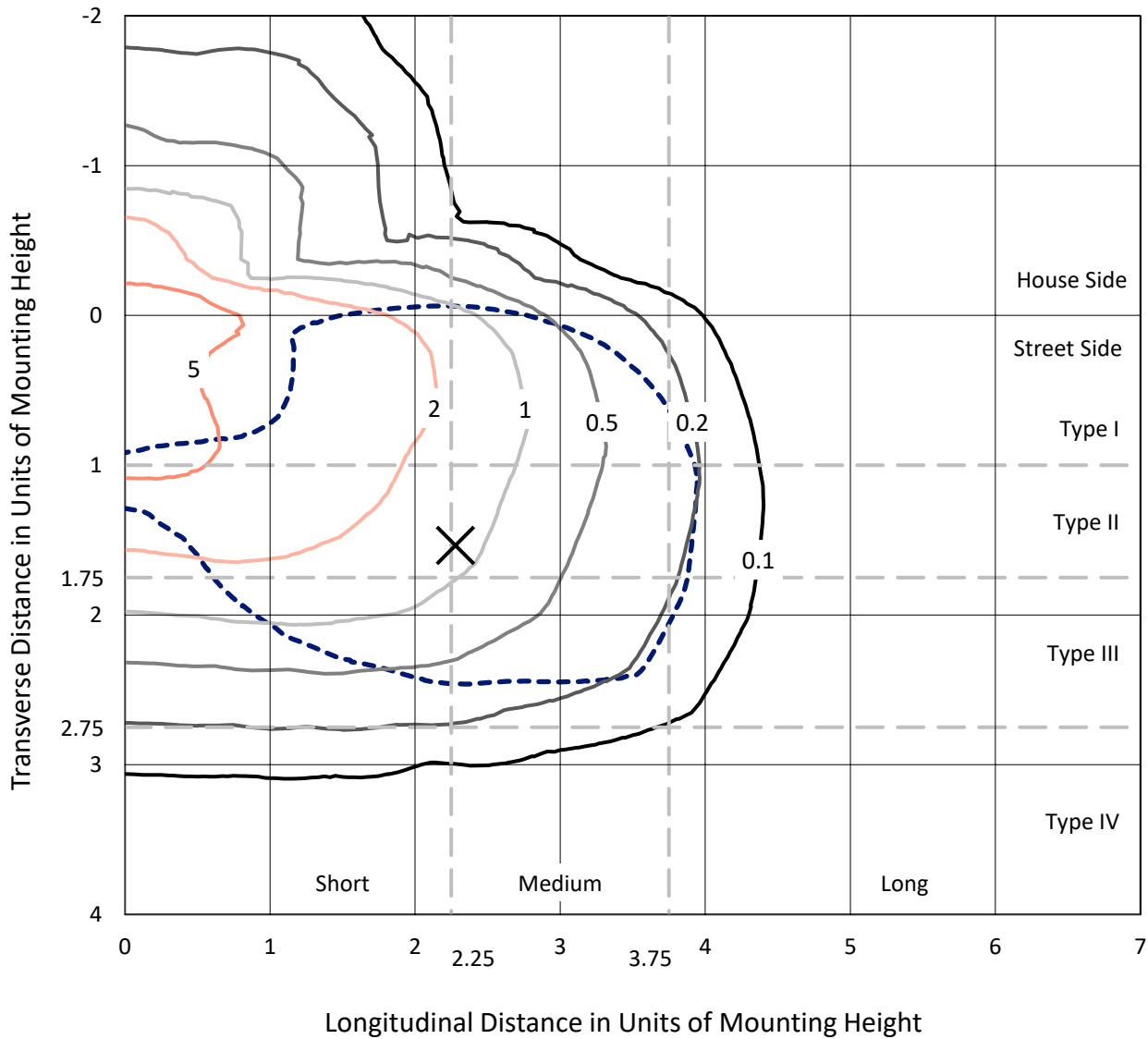
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

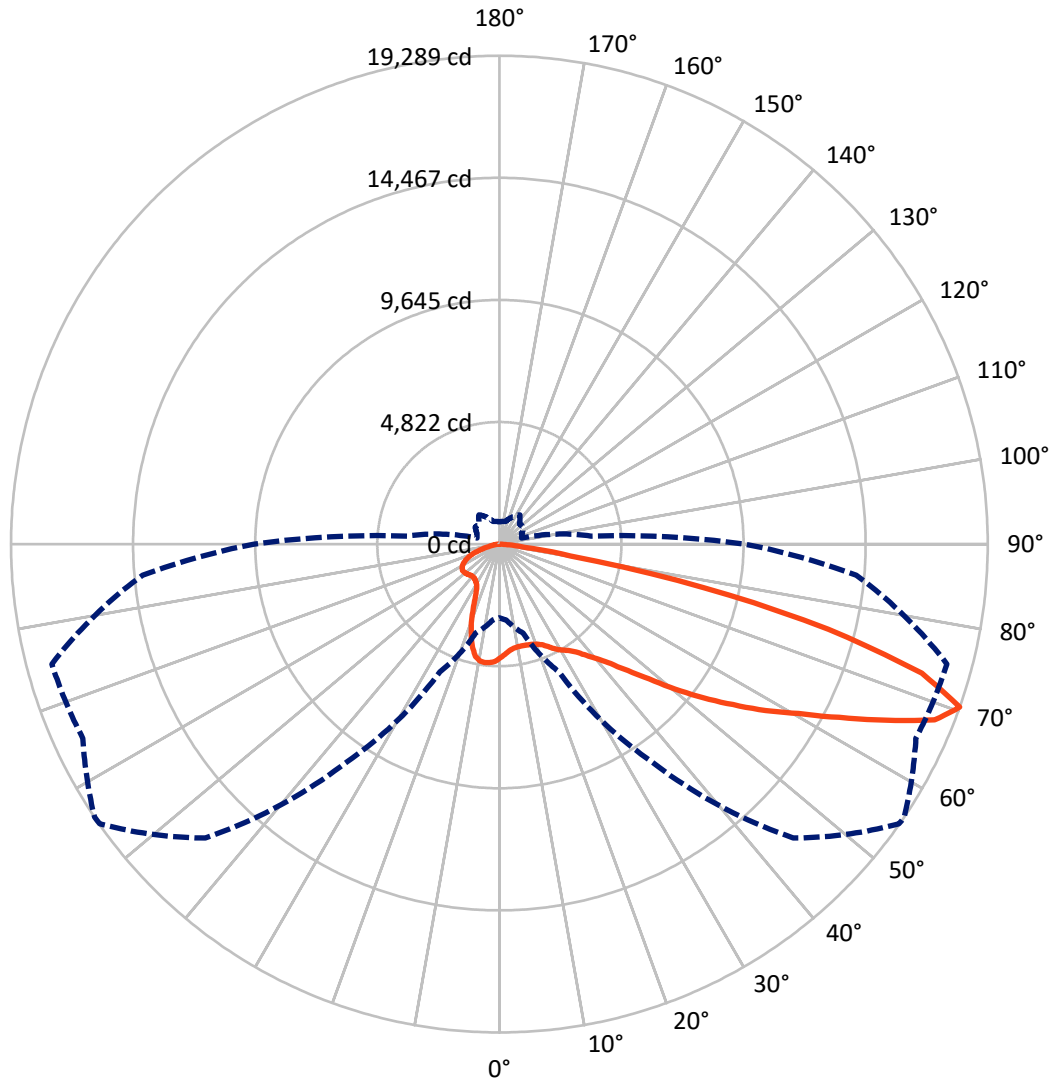
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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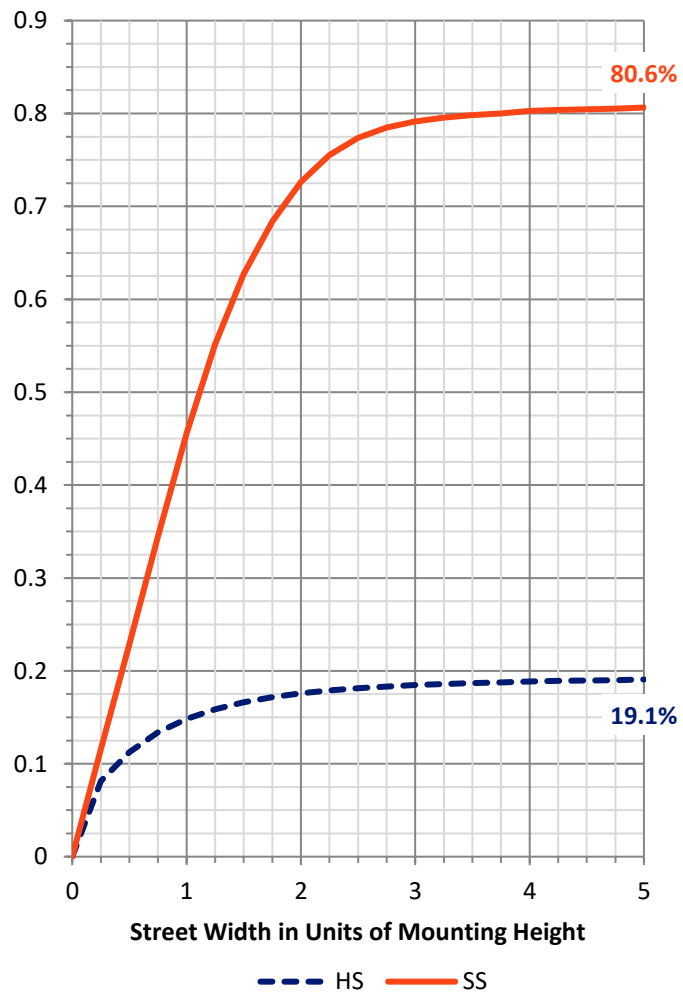
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5346.5	0.0	5346.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	22463.2	0.0	22463.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	27809.7	0.0	27809.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.4	1.5
10°-20°	1125.5	4.0
20°-30°	1860.8	6.7
30°-40°	2782.2	10.0
40°-50°	4140.3	14.9
50°-60°	5886.2	21.2
60°-70°	7290.3	26.2
70°-80°	4025.5	14.5
80°-90°	283.5	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°	27809.7	100.0
0°-180°	27809.7	100.0

Coefficient of Utilization



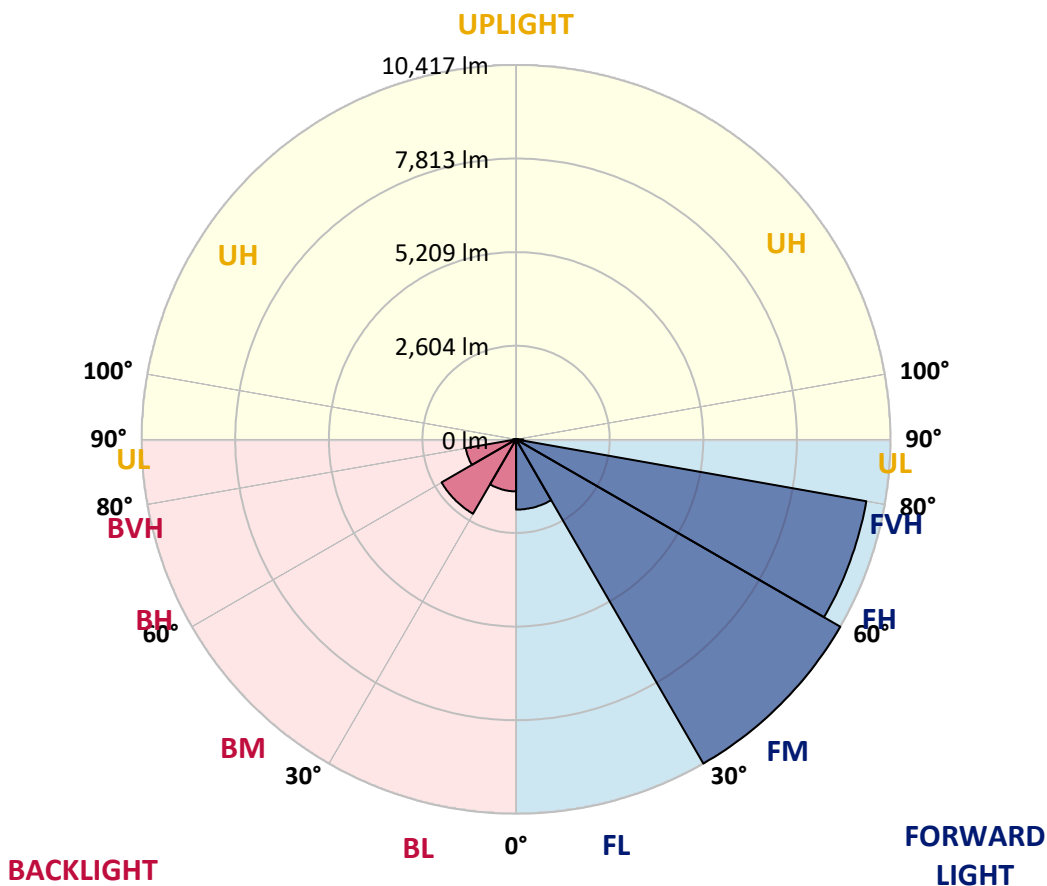
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.4	7.0			
FM (30°-60°)	10417.1	37.5			
FH (60°-80°)	9894.7	35.6			G4/12000
FVH (80°-90°)	197.0	0.7			G2/225
BL (0°-30°)	1447.3	5.2	B3/2500		
BM (30°-60°)	2391.6	8.6	B2/2500		
BH (60°-80°)	1421.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	86.5	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°	56°	65°	75°	85°
0°	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9
2.5°	4200.6	4177.1	4204.6	4218.3	4253.6	4304.6	4349.7	4351.6	4375.2	4432.0	4487.0
5°	4010.4	3998.6	4006.5	4047.7	4084.9	4149.6	4218.3	4224.2	4290.8	4402.6	4512.4
7.5°	3863.3	3847.6	3877.1	3930.0	3977.1	4049.6	4139.8	4147.7	4241.8	4410.5	4579.1
10°	3651.5	3639.8	3694.7	3765.3	3867.3	3986.9	4106.5	4116.3	4239.9	4461.5	4696.8
12.5°	3559.4	3559.4	3582.9	3649.6	3761.4	3920.2	4100.6	4116.3	4271.2	4539.9	4847.8
15°	3702.5	3712.3	3692.7	3688.8	3733.9	3884.9	4108.5	4132.0	4330.1	4620.3	4996.8
17.5°	3990.8	4000.6	3949.6	3869.2	3824.1	3918.2	4137.9	4163.4	4392.8	4708.6	5157.6
20°	4394.8	4406.5	4294.8	4171.2	4016.3	4014.3	4194.8	4218.3	4473.2	4804.6	5328.3
22.5°	4867.4	4875.2	4734.0	4537.9	4300.6	4192.8	4292.8	4316.3	4577.2	4938.0	5512.6
25°	5414.5	5438.1	5267.5	4983.1	4661.5	4437.9	4455.6	4483.0	4763.5	5116.5	5730.3
27.5°	5998.9	6028.4	5832.3	5518.5	5075.3	4708.6	4665.4	4688.9	4961.5	5226.3	5846.0
30°	6597.1	6618.6	6422.5	6063.7	5520.4	5014.5	4841.9	4855.6	5047.8	5279.2	5963.6
32.5°	7261.9	7244.2	7056.0	6642.2	6034.2	5381.2	5006.6	5002.7	5143.9	5385.1	6132.3
35°	7885.5	7911.0	7711.0	7254.0	6599.0	5834.2	5253.7	5238.0	5347.9	5557.7	6369.6
37.5°	8640.5	8632.7	8393.4	7899.2	7165.8	6267.6	5600.8	5573.4	5612.6	5826.4	6701.0
40°	9179.8	9234.7	9079.8	8618.9	7828.6	6801.0	6006.8	5946.0	5955.8	6157.8	7144.2
42.5°	9621.1	9672.0	9687.7	9393.6	8587.6	7460.0	6512.7	6452.0	6457.8	6744.2	7689.4
45°	9960.3	10029.0	10250.6	10164.3	9442.6	8220.8	7197.2	7134.4	7138.3	7456.0	8348.3
47.5°	10099.6	10174.1	10623.2	10829.1	10350.6	9130.8	8048.3	7956.1	7969.8	8320.9	9101.4
50°	10054.5	10154.5	10762.4	11340.9	11111.5	10056.4	9066.1	9001.4	8948.4	9458.3	9919.1
52.5°	9666.2	9776.0	10748.7	11666.5	11733.1	10931.1	10117.2	10080.0	10068.2	10666.3	10833.0
55°	8522.9	8707.2	10276.1	11752.8	12219.5	11754.7	11256.6	11193.8	11254.6	11960.6	11756.7
57.5°	7889.4	8026.7	9350.4	11656.7	12617.6	12539.1	12394.0	12399.9	12468.5	13366.7	12876.5
60°	7528.6	7689.4	8836.6	11393.9	13000.0	13492.2	13584.4	13584.4	13708.0	14882.6	14013.9
62.5°	7050.1	7212.9	8356.2	10887.9	13353.0	14614.0	15080.7	15074.8	15123.9	16508.4	15125.8
65°	6079.3	6230.4	7391.3	10089.8	13525.6	15849.5	16781.0	16763.3	16665.3	17955.7	15861.2
67.5°	4414.4	4557.6	5661.6	8571.9	12903.9	16845.7	18532.2	18540.1	17953.7	18867.6	15900.4
70°	2910.2	3008.3	3639.8	5567.5	10493.7	16416.2	19265.7	19289.2	18151.8	18298.8	14151.2
72.5°	1816.0	1884.6	2272.9	3320.1	6200.9	12994.1	17383.0	17447.7	16329.9	16080.9	11627.2
75°	1206.1	1253.1	1512.0	1935.6	2869.1	7032.4	13213.8	13421.6	13088.3	12605.8	8101.2
77.5°	725.6	764.8	962.9	1229.6	1270.8	2747.5	7712.9	8250.3	8297.3	6581.4	3392.7
80°	331.4	376.5	531.5	702.1	676.6	957.0	2720.0	2845.5	3357.4	2090.5	1070.7
82.5°	196.1	215.7	353.0	349.1	288.3	464.8	978.6	1004.1	853.1	764.8	456.9
85°	78.4	92.2	149.0	131.4	105.9	151.0	368.7	386.3	370.6	333.4	168.7
87.5°	0.0	0.0	0.0	0.0	2.0	3.9	33.3	35.3	51.0	92.2	51.0
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°	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9	4488.9
2.5°	4522.3	4510.5	4569.3	4614.4	4634.0	4653.6	4636.0	4630.1	4630.1	4590.9	4571.3
5°	4571.3	4577.2	4657.6	4694.8	4694.8	4679.1	4632.1	4598.7	4587.0	4536.0	4522.3
7.5°	4663.4	4688.9	4763.5	4761.5	4706.6	4620.3	4502.6	4412.4	4330.1	4294.8	4273.2
10°	4814.5	4847.8	4898.8	4816.4	4663.4	4436.0	4186.9	3990.8	3873.1	3779.0	3779.0
12.5°	4987.0	5018.4	5008.6	4818.4	4502.6	4077.1	3718.2	3492.7	3328.0	3241.7	3241.7
15°	5159.6	5185.1	5079.2	4728.2	4167.3	3600.5	3208.3	2937.7	2794.5	2714.1	2714.1
17.5°	5334.1	5332.2	5108.6	4520.3	3730.0	3073.0	2688.6	2478.8	2429.8	2416.1	2414.1
20°	5502.8	5457.7	5071.4	4173.2	3222.1	2541.6	2298.4	2312.1	2384.7	2416.1	2420.0
22.5°	5693.0	5581.2	4961.5	3730.0	2645.5	2172.9	2188.6	2302.3	2408.2	2455.3	2461.2
25°	5887.2	5687.1	4777.2	3210.3	2163.1	2037.6	2159.1	2286.6	2406.2	2467.0	2472.9
27.5°	5965.6	5687.1	4463.4	2608.2	1906.2	1980.7	2114.0	2237.6	2363.1	2433.7	2447.4
30°	6030.3	5638.1	4024.1	2065.0	1800.3	1925.8	2041.5	2155.2	2278.8	2365.1	2380.8
32.5°	6120.5	5595.0	3492.7	1735.6	1751.2	1872.8	1953.2	2049.3	2161.1	2218.0	2212.1
35°	6226.4	5528.3	2851.4	1578.7	1710.1	1827.7	1884.6	1941.5	1890.5	1888.5	1894.4
37.5°	6377.4	5469.5	2292.5	1508.1	1682.6	1796.3	1843.4	1721.8	1651.2	1621.8	1610.0
40°	6595.1	5445.9	1808.1	1466.9	1678.7	1794.4	1761.1	1572.8	1476.7	1374.7	1372.8
42.5°	6869.7	5428.3	1494.3	1447.3	1692.4	1839.5	1647.3	1474.7	1276.7	1231.6	1227.6
45°	7222.7	5400.8	1337.5	1443.4	1725.8	1874.8	1635.5	1339.4	1204.1	1184.5	1184.5
47.5°	7648.2	5357.7	1266.9	1443.4	1763.0	1859.1	1600.2	1310.0	1170.8	1192.3	1206.1
50°	8136.5	5302.8	1229.6	1439.4	1800.3	1859.1	1525.7	1304.1	1162.9	1274.7	1319.8
52.5°	8658.2	5240.0	1204.1	1423.7	1825.8	1861.1	1529.6	1323.7	1170.8	1294.3	1331.6
55°	9234.7	5230.2	1168.8	1390.4	1833.6	1810.1	1539.4	1366.9	1182.5	1172.7	1174.7
57.5°	9962.3	5347.9	1143.3	1341.4	1802.2	1706.1	1559.1	1398.3	1168.8	1170.8	1184.5
60°	10723.2	5569.5	1164.9	1294.3	1737.5	1608.1	1572.8	1382.6	1102.1	1070.7	1074.7
62.5°	11370.3	5738.1	1182.5	1272.7	1643.4	1521.8	1559.1	1347.3	1064.9	1057.0	1074.7
65°	11641.0	5598.9	1139.4	1227.6	1506.1	1415.9	1529.6	1302.2	1033.5	1004.1	1006.0
67.5°	11340.9	4945.8	1055.1	1127.6	1351.2	1280.6	1482.6	1243.3	990.3	955.0	947.2
70°	9687.7	3633.9	909.9	968.8	1162.9	1121.7	1410.0	1166.8	921.7	896.2	878.6
72.5°	7807.1	2572.9	755.0	770.7	911.9	945.2	1284.5	1070.7	843.3	770.7	745.2
75°	5434.2	1615.9	629.5	613.8	658.9	721.7	1002.1	888.4	727.6	651.1	627.5
77.5°	2337.6	829.5	492.2	484.4	439.3	500.1	768.7	741.3	609.9	521.6	507.9
80°	782.5	480.5	355.0	341.2	292.2	351.0	541.3	592.2	478.5	386.3	362.8
82.5°	392.2	278.5	225.5	204.0	196.1	221.6	319.7	368.7	331.4	266.7	225.5
85°	192.2	158.8	123.5	121.6	102.0	96.1	133.4	156.9	149.0	109.8	103.9
87.5°	70.6	62.8	39.2	31.4	19.6	13.7	7.8	7.8	5.9	5.9	5.9
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)