

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: P641470

Luminaire Tested: GWS-SA5F-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

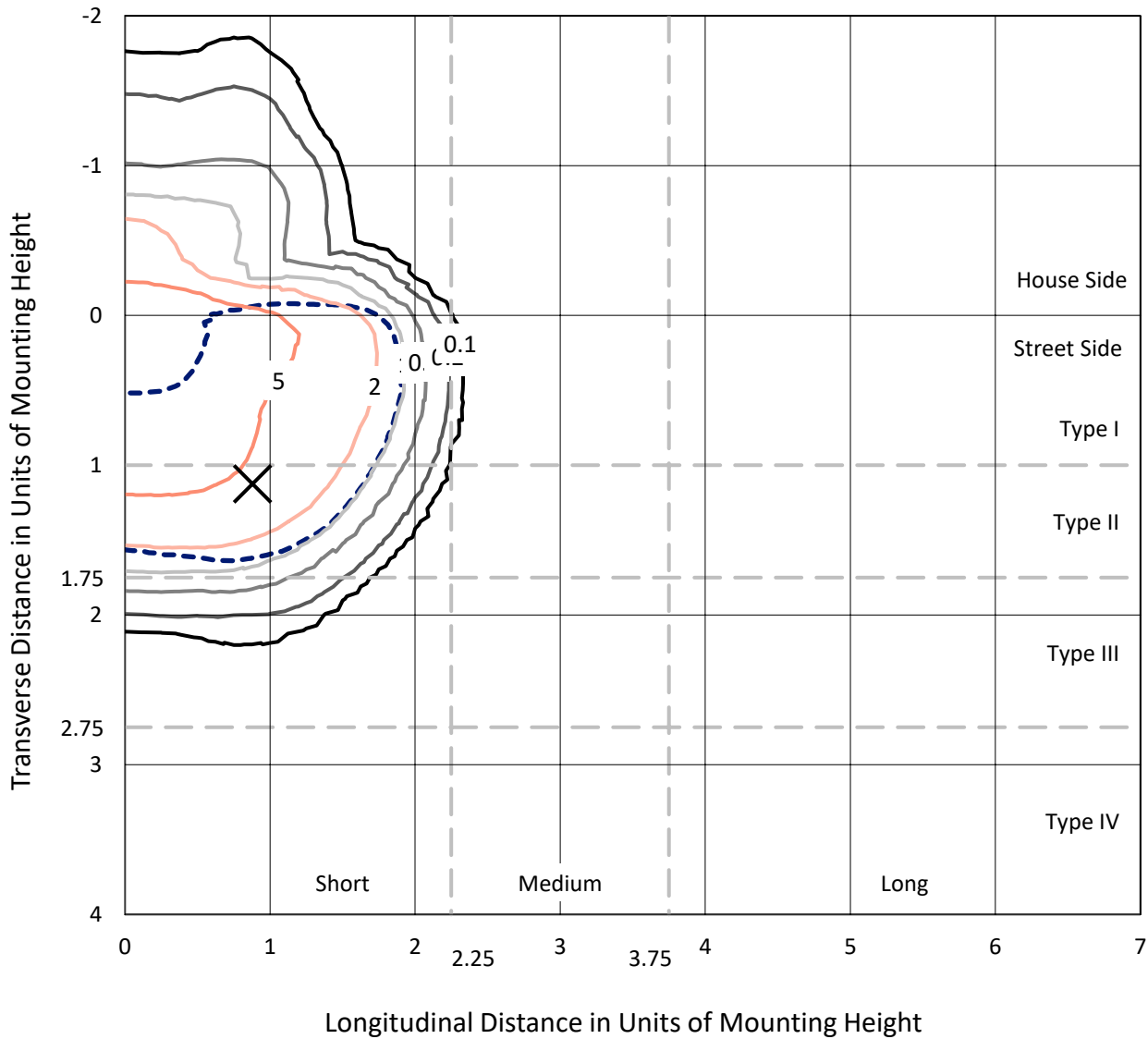
Lumens per Lamp: N/A  
Luminaire Lumens: 20795.4 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

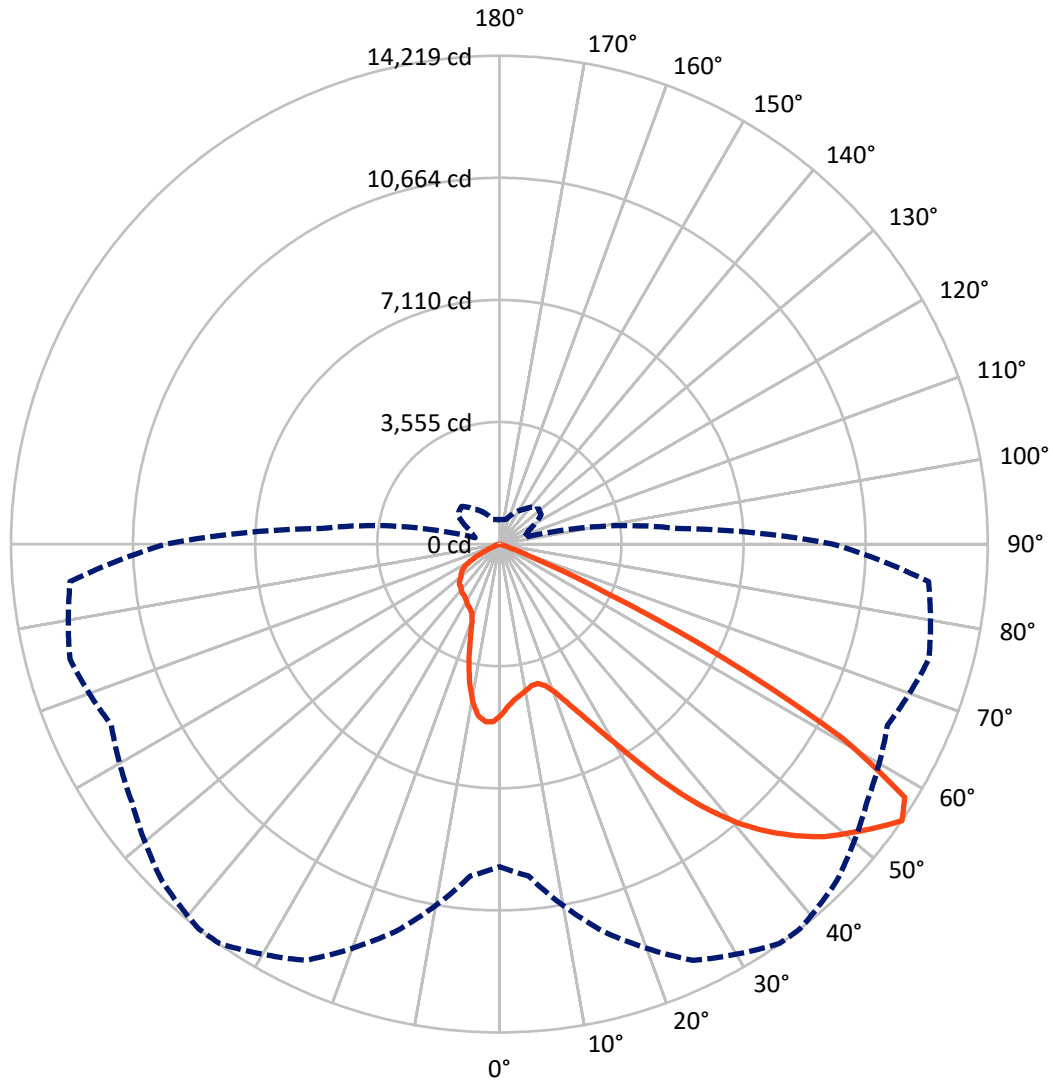
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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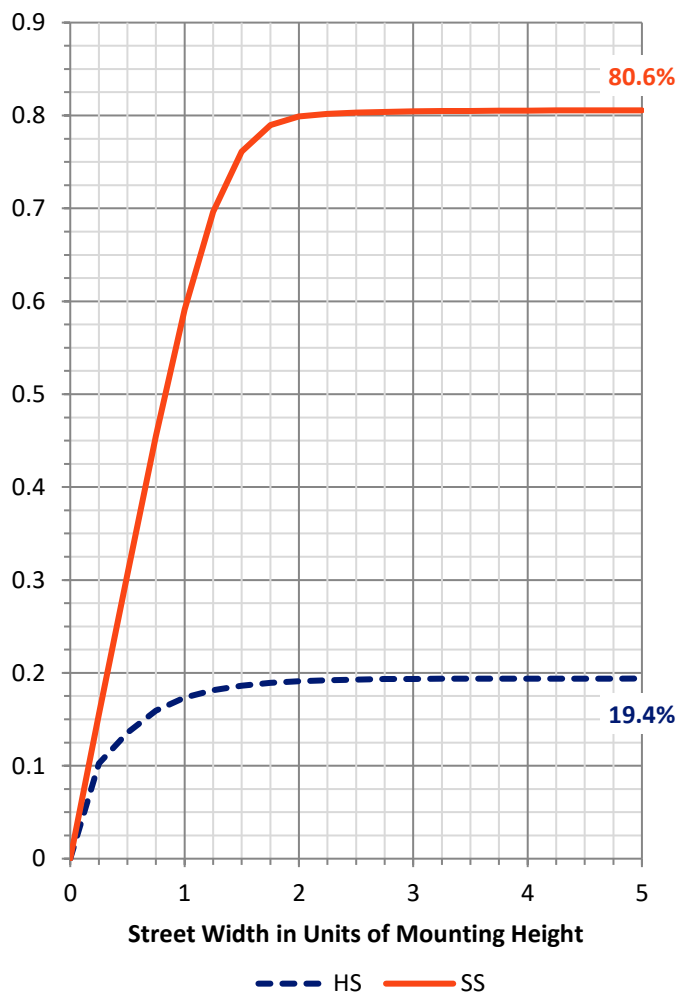
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4051.6	0.0	4051.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	16743.8	0.0	16743.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	20795.4	0.0	20795.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.1	2.2
10°-20°	1241.4	6.0
20°-30°	2130.2	10.2
30°-40°	3533.1	17.0
40°-50°	5193.9	25.0
50°-60°	6069.2	29.2
60°-70°	2057.3	9.9
70°-80°	105.2	0.5
80°-90°	4.2	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°	20795.4	100.0
0°-180°	20795.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641470

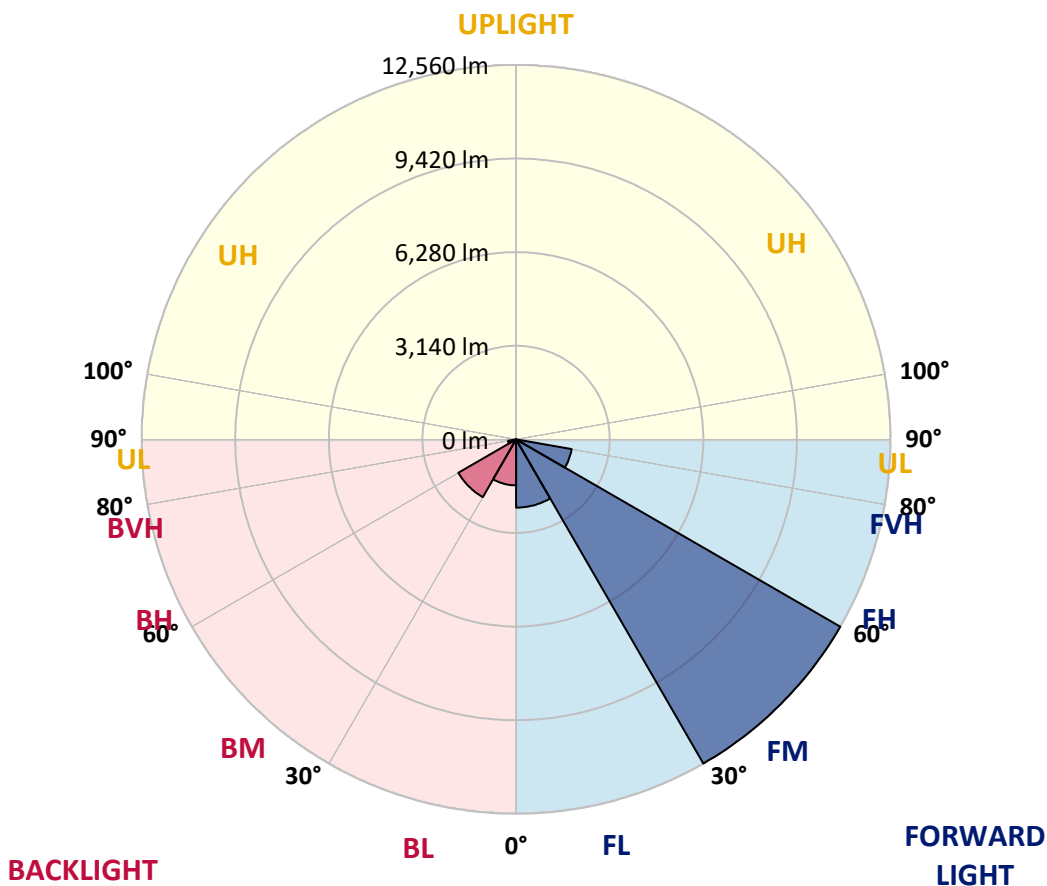
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.1	11.0			
FM (30°-60°)	12559.8	60.4			
FH (60°-80°)	1892.7	9.1			G2/5000
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1543.6	7.4	B3/2500		
BM (30°-60°)	2236.3	10.8	B2/2500		
BH (60°-80°)	269.7	1.3	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9
2.5°	4644.6	4635.1	4654.1	4692.2	4727.8	4739.7	4775.3	4825.3	4856.2	4929.8	4989.3
5°	4435.4	4430.7	4449.7	4483.0	4530.5	4547.2	4601.8	4685.0	4768.2	4896.6	5022.6
7.5°	4245.3	4242.9	4271.4	4345.1	4414.0	4435.4	4502.0	4604.2	4715.9	4913.2	5098.6
10°	3995.7	3998.1	4052.7	4157.3	4283.3	4326.1	4433.1	4580.4	4725.4	4979.8	5236.5
12.5°	3914.9	3919.6	3948.2	4029.0	4166.8	4221.5	4371.3	4594.7	4780.1	5074.8	5414.8
15°	4112.2	4112.2	4088.4	4097.9	4159.7	4209.6	4366.5	4642.2	4872.8	5188.9	5590.6
17.5°	4494.9	4480.6	4421.2	4340.4	4319.0	4335.6	4461.6	4744.4	5003.5	5322.0	5790.3
20°	5013.0	5017.8	4901.3	4732.6	4597.1	4594.7	4670.8	4925.1	5191.3	5481.3	6006.6
22.5°	5640.6	5621.5	5467.0	5236.5	5001.2	4982.1	5013.0	5200.8	5462.3	5733.3	6272.8
25°	6367.9	6358.4	6139.7	5830.7	5519.3	5474.2	5474.2	5659.6	5849.7	6092.2	6591.4
27.5°	7128.6	7128.6	6917.0	6560.5	6146.9	6066.0	6054.2	6272.8	6398.8	6446.4	6860.0
30°	7910.6	7901.1	7691.9	7325.8	6883.7	6800.5	6767.3	6928.9	7019.2	6876.6	7195.1
32.5°	8704.5	8721.1	8509.6	8169.7	7775.1	7720.4	7618.2	7618.2	7691.9	7492.2	7722.8
35°	9557.8	9553.1	9386.7	9156.1	8818.6	8756.8	8588.0	8324.2	8435.9	8347.9	8452.5
37.5°	10311.3	10347.0	10266.2	10095.0	9821.7	9759.9	9481.8	9004.0	9089.6	9227.4	9320.1
40°	11076.7	11105.2	11186.1	11131.4	10786.7	10672.6	10178.2	9393.8	9488.9	9961.9	10228.1
42.5°	11827.8	11842.1	12006.1	12096.4	11635.3	11435.6	10705.9	9631.5	9731.3	10537.1	11003.0
45°	12305.6	12336.5	12607.5	12883.2	12384.0	12110.7	11164.7	9935.8	9978.5	10936.5	11575.9
47.5°	12286.6	12357.9	12866.6	13368.1	13028.2	12733.5	11716.1	10423.0	10351.7	11312.0	11953.8
50°	11903.9	11989.5	12719.2	13515.5	13491.7	13218.4	12329.4	11129.0	10905.6	11644.8	12001.4
52.5°	11110.0	11357.2	12460.1	13534.5	13864.9	13727.0	13087.6	12079.8	11654.3	12122.6	12077.4
55°	9393.8	9698.1	11673.3	13372.9	14202.4	14219.1	13883.9	13071.0	12467.2	12945.0	12545.7
57.5°	7130.9	7373.4	8985.0	11903.9	13643.8	13917.2	14192.9	13593.9	12968.8	13506.0	12655.0
60°	4297.6	4578.1	5626.3	8735.4	11019.7	11485.5	12567.1	12450.6	11697.1	11927.7	10377.9
62.5°	1742.3	1889.7	2598.0	4813.4	6936.0	7371.0	8407.4	8583.3	8397.9	8162.5	6294.2
65°	637.0	696.5	1041.1	1989.5	3189.9	3349.2	3895.9	4207.2	4464.0	3800.8	2341.3
67.5°	394.6	432.6	677.4	1022.1	1160.0	1079.1	1098.2	1309.7	1250.3	772.5	418.3
70°	292.4	323.3	530.1	708.3	468.3	361.3	244.8	261.5	235.3	206.8	204.4
72.5°	202.0	230.6	397.0	418.3	180.7	128.4	90.3	126.0	142.6	140.2	145.0
75°	133.1	154.5	249.6	164.0	45.2	35.7	30.9	66.6	85.6	85.6	87.9
77.5°	78.4	90.3	87.9	33.3	9.5	9.5	7.1	11.9	19.0	21.4	26.1
80°	9.5	7.1	4.8	4.8	4.8	4.8	4.8	4.8	7.1	7.1	7.1
82.5°	2.4	2.4	2.4	4.8	4.8	4.8	4.8	4.8	4.8	7.1	7.1
85°	0.0	0.0	2.4	2.4	4.8	4.8	4.8	4.8	4.8	7.1	7.1
87.5°	0.0	0.0	2.4	2.4	4.8	4.8	4.8	4.8	4.8	7.1	7.1
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°	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9	4986.9
2.5°	5034.4	5017.8	5086.7	5136.6	5177.1	5196.1	5169.9	5167.5	5167.5	5115.3	5101.0
5°	5093.9	5101.0	5198.4	5241.2	5248.4	5224.6	5165.2	5124.8	5101.0	5046.3	5015.4
7.5°	5208.0	5231.7	5324.4	5317.3	5253.1	5143.8	4986.9	4865.7	4787.2	4701.7	4649.4
10°	5372.0	5417.1	5474.2	5374.3	5169.9	4891.8	4568.5	4338.0	4200.1	4102.7	4043.2
12.5°	5571.6	5616.8	5597.8	5362.5	4937.0	4440.2	4024.2	3691.4	3532.2	3444.2	3382.4
15°	5773.7	5802.2	5678.6	5219.8	4525.8	3857.8	3394.3	3063.9	2869.0	2797.7	2745.4
17.5°	5980.5	5973.3	5692.9	4939.4	3976.7	3201.8	2745.4	2519.6	2464.9	2453.0	2448.3
20°	6196.8	6132.6	5635.8	4537.6	3315.9	2552.9	2293.8	2308.0	2407.9	2455.4	2464.9
22.5°	6444.0	6282.3	5493.2	3993.3	2640.8	2127.4	2153.5	2293.8	2429.3	2493.4	2503.0
25°	6707.8	6420.2	5255.5	3294.5	2082.2	1956.3	2110.8	2272.4	2417.4	2495.8	2505.3
27.5°	6881.3	6453.5	4865.7	2590.9	1787.5	1889.7	2053.7	2208.2	2358.0	2443.5	2455.4
30°	7069.1	6439.2	4335.6	1996.7	1687.7	1832.6	1975.3	2115.5	2253.4	2348.5	2358.0
32.5°	7344.9	6429.7	3689.1	1621.1	1647.2	1787.5	1892.1	2008.5	2103.6	2158.3	2151.2
35°	7706.2	6417.8	2935.6	1461.8	1623.5	1751.8	1835.0	1889.7	1785.1	1751.8	1759.0
37.5°	8169.7	6446.4	2300.9	1395.3	1616.3	1742.3	1813.6	1656.8	1495.1	1433.3	1423.8
40°	8683.1	6520.0	1754.2	1369.1	1640.1	1766.1	1732.8	1473.7	1274.1	1152.8	1126.7
42.5°	9198.9	6600.9	1388.2	1359.6	1680.5	1832.6	1599.7	1340.6	1041.1	972.2	962.7
45°	9581.6	6586.6	1200.4	1343.0	1716.2	1870.7	1564.1	1150.5	929.4	898.5	900.9
47.5°	9774.1	6429.7	1098.2	1305.0	1730.4	1832.6	1476.1	1072.0	853.3	886.6	915.1
50°	9671.9	6023.3	1003.1	1231.3	1699.5	1782.7	1335.9	1012.6	815.3	953.2	1017.3
52.5°	9548.3	5524.1	898.5	1117.2	1625.9	1713.8	1281.2	996.0	791.5	919.9	967.4
55°	9712.3	5208.0	727.4	941.3	1480.9	1552.2	1238.4	993.6	736.9	715.5	708.3
57.5°	9481.8	4578.1	520.6	677.4	1136.2	1228.9	1207.5	976.9	653.7	651.3	660.8
60°	7328.2	2792.9	356.5	430.2	696.5	784.4	1095.8	934.2	563.3	518.2	520.6
62.5°	4164.5	1188.5	244.8	266.2	356.5	423.1	836.7	848.6	520.6	494.4	520.6
65°	1450.0	425.5	190.2	178.3	197.3	225.8	480.1	656.0	473.0	427.9	432.6
67.5°	299.5	211.6	168.8	147.4	147.4	147.4	244.8	408.8	389.8	339.9	344.7
70°	190.2	180.7	147.4	126.0	121.2	111.7	140.2	225.8	268.6	247.2	249.6
72.5°	140.2	137.9	116.5	102.2	90.3	80.8	87.9	111.7	137.9	142.6	145.0
75°	85.6	87.9	76.1	64.2	57.0	49.9	52.3	52.3	52.3	47.5	52.3
77.5°	26.1	28.5	23.8	19.0	16.6	16.6	16.6	14.3	11.9	7.1	7.1
80°	7.1	7.1	7.1	7.1	7.1	4.8	4.8	2.4	2.4	0.0	0.0
82.5°	7.1	7.1	7.1	7.1	4.8	4.8	2.4	2.4	0.0	0.0	0.0
85°	7.1	7.1	7.1	7.1	4.8	4.8	2.4	2.4	0.0	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	4.8	4.8	2.4	2.4	0.0	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)