

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: P640978

Luminaire Tested: GWS-SA5E-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640978
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-SA5E-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30316.7 lumens
Efficiency: N/A
Efficacy: 112.5 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): 269.6
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

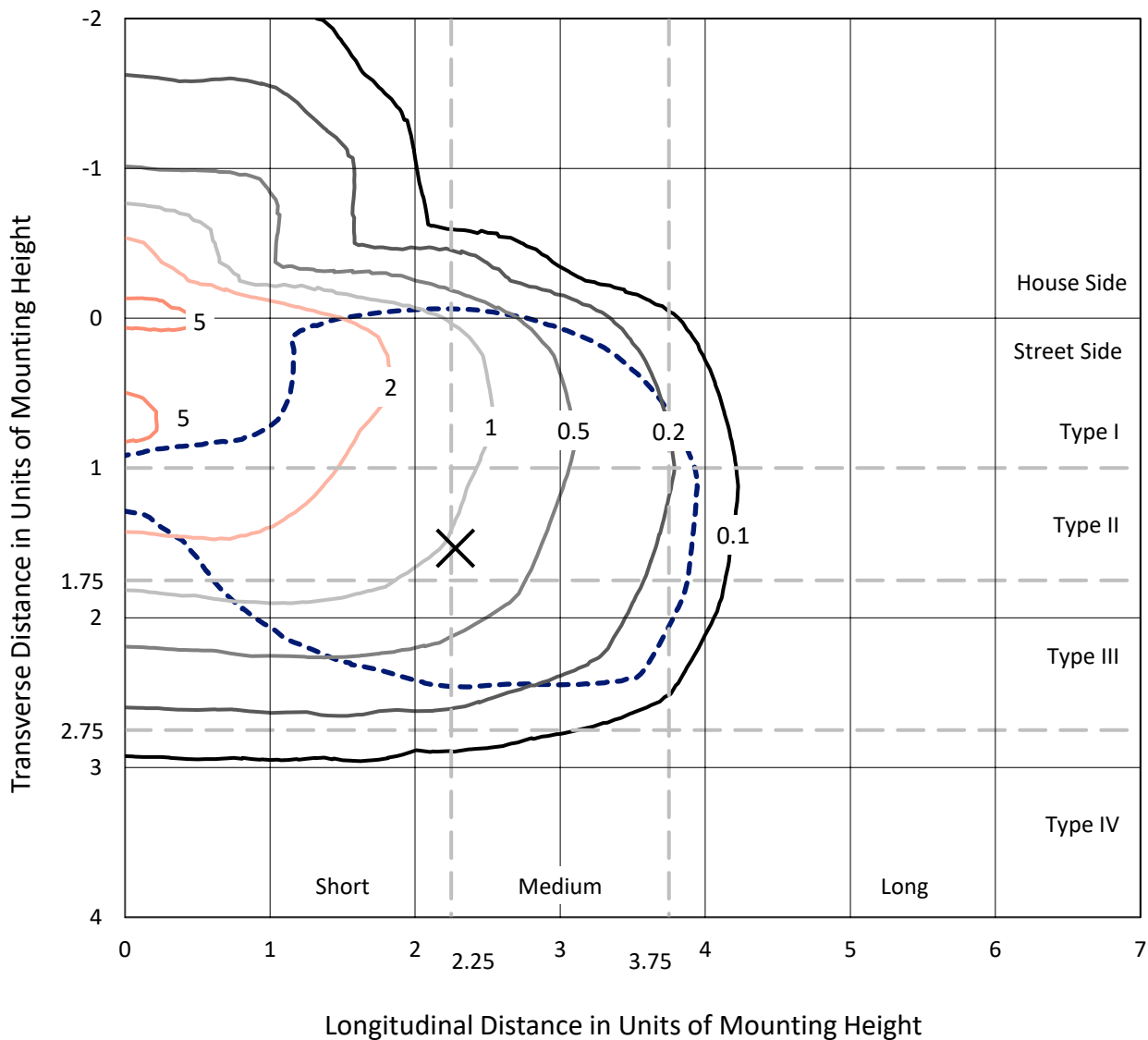


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Iso-Footcandle Lines of Horizontal Illumination

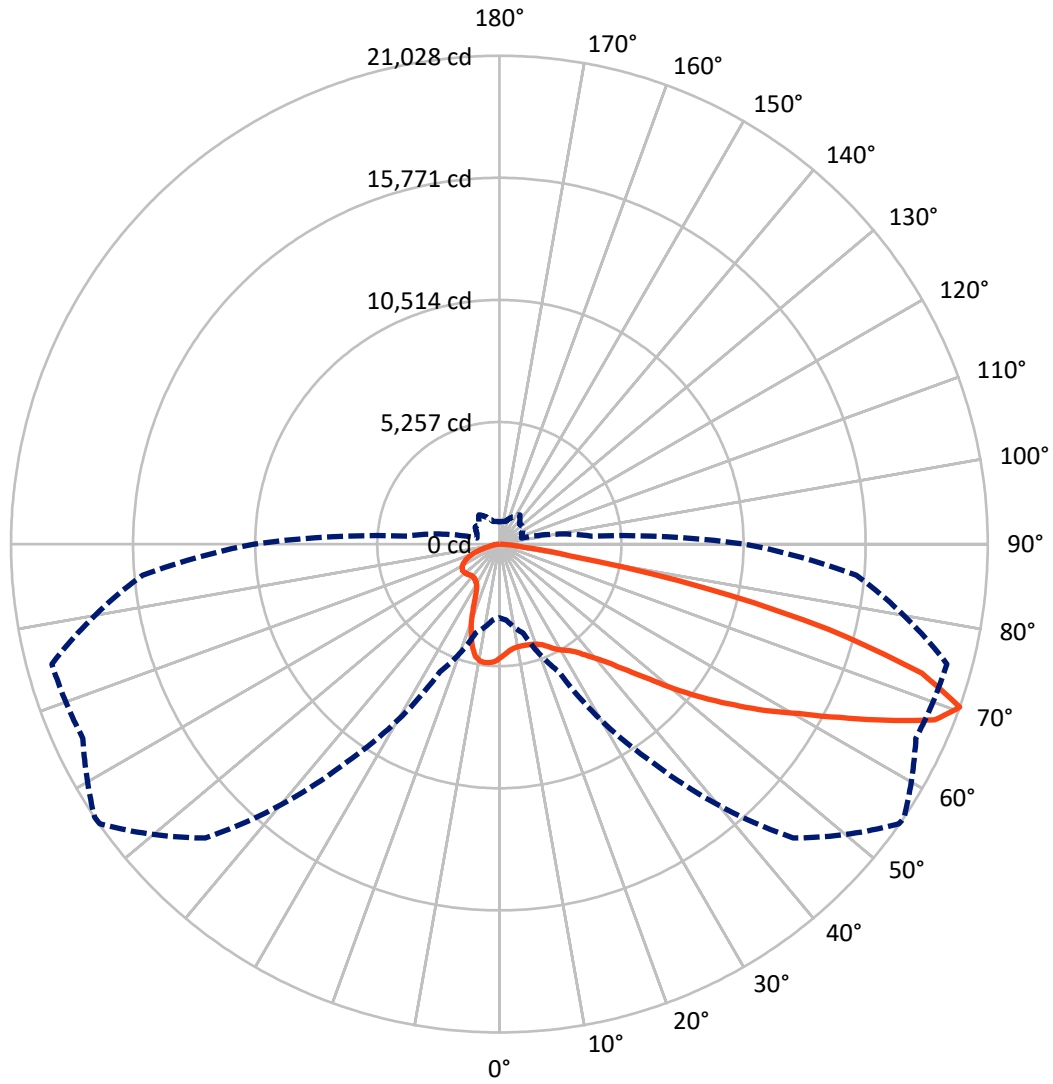
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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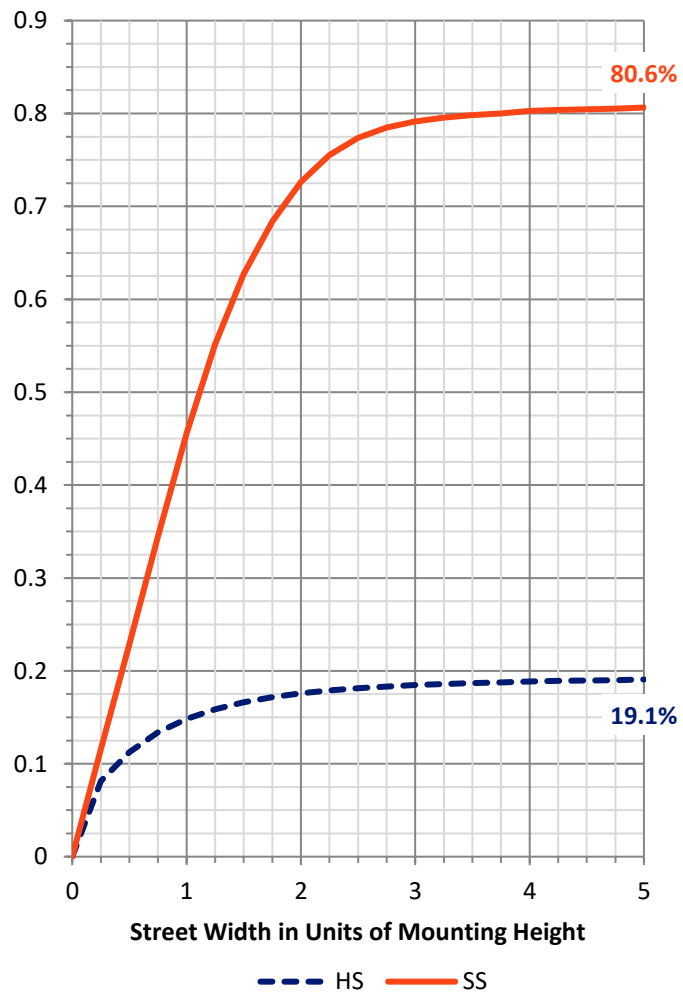
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5828.4	0.0	5828.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	24488.3	0.0	24488.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	30316.7	0.0	30316.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	1.5
10°-20°	1227.0	4.0
20°-30°	2028.6	6.7
30°-40°	3033.0	10.0
40°-50°	4513.5	14.9
50°-60°	6416.9	21.2
60°-70°	7947.5	26.2
70°-80°	4388.4	14.5
80°-90°	309.1	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°	30316.7	100.0
0°-180°	30316.7	100.0

Coefficient of Utilization



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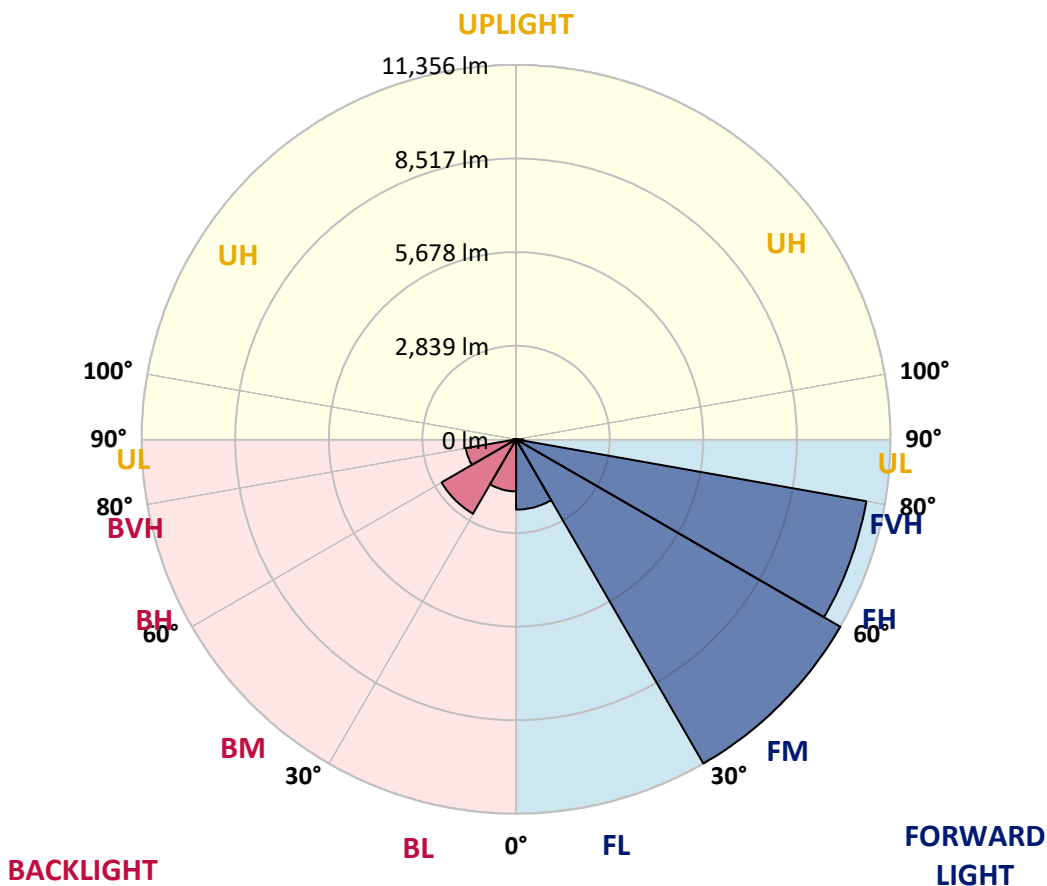
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.6	7.0			
FM (30°-60°)	11356.2	37.5			
FH (60°-80°)	10786.7	35.6			G4/12000
FVH (80°-90°)	214.8	0.7			G2/225
BL (0°-30°)	1577.8	5.2	B3/2500		
BM (30°-60°)	2607.2	8.6	B3/5000		
BH (60°-80°)	1549.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	94.3	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°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4579.3	4553.7	4583.6	4598.6	4637.0	4692.6	4741.8	4743.9	4769.6	4831.6	4891.4
5°	4371.9	4359.1	4367.7	4412.6	4453.2	4523.7	4598.6	4605.0	4677.7	4799.5	4919.2
7.5°	4211.6	4194.5	4226.6	4284.3	4335.6	4414.7	4513.0	4521.6	4624.2	4808.1	4991.9
10°	3980.7	3967.9	4027.7	4104.7	4215.9	4346.3	4476.7	4487.4	4622.1	4863.7	5120.2
12.5°	3880.2	3880.2	3905.9	3978.6	4100.4	4273.6	4470.3	4487.4	4656.3	4949.2	5284.8
15°	4036.3	4047.0	4025.6	4021.3	4070.5	4235.1	4478.8	4504.5	4720.4	5036.8	5447.3
17.5°	4350.6	4361.3	4305.7	4218.0	4168.8	4271.5	4510.9	4538.7	4788.8	5133.0	5622.6
20°	4791.0	4803.8	4681.9	4547.2	4378.4	4376.2	4572.9	4598.6	4876.5	5237.8	5808.6
22.5°	5306.2	5314.7	5160.8	4947.0	4688.3	4570.8	4679.8	4705.4	4989.8	5383.2	6009.5
25°	5902.7	5928.3	5742.3	5432.3	5081.7	4838.0	4857.2	4887.2	5192.9	5577.7	6246.9
27.5°	6539.7	6571.8	6358.0	6016.0	5532.8	5133.0	5086.0	5111.6	5408.8	5697.4	6373.0
30°	7191.8	7215.3	7001.5	6610.3	6018.1	5466.5	5278.4	5293.4	5502.9	5755.1	6501.3
32.5°	7916.5	7897.3	7692.1	7241.0	6578.2	5866.3	5458.0	5453.7	5607.6	5870.6	6685.1
35°	8596.4	8624.2	8406.1	7908.0	7193.9	6360.2	5727.4	5710.2	5830.0	6058.7	6943.8
37.5°	9419.4	9410.9	9150.1	8611.3	7811.8	6832.6	6105.8	6075.8	6118.6	6351.6	7305.1
40°	10007.4	10067.2	9898.3	9395.9	8534.4	7414.1	6548.3	6482.0	6492.7	6712.9	7788.3
42.5°	10488.4	10544.0	10561.1	10240.4	9361.7	8132.5	7099.9	7033.6	7040.0	7352.1	8382.6
45°	10858.2	10933.1	11174.6	11080.6	10293.8	8961.9	7846.0	7777.6	7781.8	8128.2	9100.9
47.5°	11010.0	11091.3	11580.8	11805.3	11283.7	9953.9	8773.8	8673.3	8688.3	9071.0	9921.8
50°	10960.9	11069.9	11732.6	12363.3	12113.2	10963.0	9883.4	9812.8	9755.1	10310.9	10813.3
52.5°	10537.6	10657.3	11717.7	12718.2	12790.9	11916.5	11029.3	10988.6	10975.8	11627.9	11809.6
55°	9291.2	9492.1	11202.4	12812.2	13321.1	12814.4	12271.4	12203.0	12269.2	13038.9	12816.5
57.5°	8600.6	8750.3	10193.4	12707.5	13755.0	13669.5	13511.3	13517.7	13592.6	14571.7	14037.2
60°	8207.3	8382.6	9633.2	12421.0	14171.9	14708.5	14809.0	14809.0	14943.7	16224.3	15277.2
62.5°	7685.6	7863.1	9109.5	11869.4	14556.7	15931.4	16440.2	16433.8	16487.2	17996.6	16489.4
65°	6627.4	6792.0	8057.6	10999.3	14744.9	17278.3	18293.7	18274.5	18167.6	19574.3	17291.1
67.5°	4812.3	4968.4	6172.0	9344.6	14067.2	18364.3	20202.9	20211.4	19572.2	20568.4	17333.8
70°	3172.6	3279.5	3967.9	6069.4	11439.7	17896.1	21002.4	21028.1	19788.1	19948.5	15426.9
72.5°	1979.7	2054.5	2477.8	3619.4	6759.9	14165.5	18950.1	19020.6	17802.0	17530.5	12675.4
75°	1314.8	1366.1	1648.3	2110.1	3127.7	7666.4	14405.0	14631.6	14268.1	13742.2	8831.5
77.5°	791.0	833.8	1049.7	1340.4	1385.3	2995.2	8408.2	8994.0	9045.3	7174.7	3698.5
80°	361.3	410.5	579.4	765.4	737.6	1043.3	2965.2	3102.0	3660.0	2279.0	1167.3
82.5°	213.8	235.2	384.8	380.5	314.3	506.7	1066.8	1094.6	930.0	833.8	498.1
85°	85.5	100.5	162.5	143.2	115.4	164.6	401.9	421.2	404.1	363.4	183.9
87.5°	0.0	0.0	0.0	0.0	2.1	4.3	36.3	38.5	55.6	100.5	55.6
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°	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6	4893.6
2.5°	4929.9	4917.1	4981.2	5030.4	5051.8	5073.2	5053.9	5047.5	5047.5	5004.8	4983.4
5°	4983.4	4989.8	5077.4	5118.1	5118.1	5101.0	5049.6	5013.3	5000.5	4944.9	4929.9
7.5°	5083.9	5111.6	5192.9	5190.7	5130.9	5036.8	4908.5	4810.2	4720.4	4681.9	4658.4
10°	5248.5	5284.8	5340.4	5250.6	5083.9	4835.9	4564.3	4350.6	4222.3	4119.7	4119.7
12.5°	5436.6	5470.8	5460.1	5252.7	4908.5	4444.6	4053.4	3807.5	3628.0	3533.9	3533.9
15°	5624.7	5652.5	5537.1	5154.4	4543.0	3925.1	3497.6	3202.5	3046.5	2958.8	2958.8
17.5°	5815.0	5812.9	5569.1	4927.8	4066.2	3350.0	2931.0	2702.3	2648.8	2633.9	2631.7
20°	5998.9	5949.7	5528.5	4549.4	3512.5	2770.7	2505.6	2520.5	2599.6	2633.9	2638.1
22.5°	6206.2	6084.4	5408.8	4066.2	2884.0	2368.8	2385.9	2509.9	2625.3	2676.6	2683.0
25°	6417.9	6199.8	5207.8	3499.7	2358.1	2221.2	2353.8	2492.8	2623.2	2689.4	2695.9
27.5°	6503.4	6199.8	4865.8	2843.4	2078.0	2159.2	2304.6	2439.3	2576.1	2653.1	2668.1
30°	6573.9	6146.4	4386.9	2251.2	1962.6	2099.4	2225.5	2349.5	2484.2	2578.3	2595.4
32.5°	6672.3	6099.3	3807.5	1892.0	1909.1	2041.7	2129.3	2234.1	2355.9	2417.9	2411.5
35°	6787.7	6026.7	3108.5	1721.0	1864.2	1992.5	2054.5	2116.5	2060.9	2058.8	2065.2
37.5°	6952.3	5962.5	2499.2	1644.0	1834.3	1958.3	2009.6	1877.0	1800.1	1768.0	1755.2
40°	7189.7	5936.9	1971.1	1599.1	1830.0	1956.1	1919.8	1714.6	1609.8	1498.6	1496.5
42.5°	7489.0	5917.6	1629.1	1577.7	1845.0	2005.3	1795.8	1607.7	1391.8	1342.6	1338.3
45°	7873.8	5887.7	1458.0	1573.5	1881.3	2043.8	1783.0	1460.2	1312.7	1291.3	1291.3
47.5°	8337.7	5840.7	1381.1	1573.5	1921.9	2026.7	1744.5	1428.1	1276.3	1299.8	1314.8
50°	8870.0	5780.8	1340.4	1569.2	1962.6	2026.7	1663.3	1421.7	1267.8	1389.6	1438.8
52.5°	9438.7	5712.4	1312.7	1552.1	1990.4	2028.8	1667.5	1443.1	1276.3	1411.0	1451.6
55°	10067.2	5701.7	1274.2	1515.7	1998.9	1973.3	1678.2	1490.1	1289.1	1278.4	1280.6
57.5°	10860.4	5830.0	1246.4	1462.3	1964.7	1859.9	1699.6	1524.3	1274.2	1276.3	1291.3
60°	11689.9	6071.5	1269.9	1411.0	1894.2	1753.1	1714.6	1507.2	1201.5	1167.3	1171.6
62.5°	12395.4	6255.4	1289.1	1387.5	1791.5	1659.0	1699.6	1468.7	1160.9	1152.3	1171.6
65°	12690.4	6103.6	1242.1	1338.3	1641.9	1543.5	1667.5	1419.5	1126.7	1094.6	1096.7
67.5°	12363.3	5391.7	1150.2	1229.3	1473.0	1396.0	1616.2	1355.4	1079.6	1041.1	1032.6
70°	10561.1	3961.5	992.0	1056.1	1267.8	1222.9	1537.1	1272.0	1004.8	977.0	957.8
72.5°	8510.9	2804.9	823.1	840.2	994.1	1030.5	1400.3	1167.3	919.3	840.2	812.4
75°	5924.0	1761.6	686.3	669.2	718.3	786.7	1092.5	968.5	793.1	709.8	684.1
77.5°	2548.3	904.3	536.6	528.1	478.9	545.2	838.0	808.1	664.9	568.7	553.7
80°	853.0	523.8	387.0	372.0	318.5	382.7	590.1	645.6	521.6	421.2	395.5
82.5°	427.6	303.6	245.9	222.3	213.8	241.6	348.5	401.9	361.3	290.8	245.9
85°	209.5	173.2	134.7	132.5	111.2	104.8	145.4	171.0	162.5	119.7	113.3
87.5°	77.0	68.4	42.8	34.2	21.4	15.0	8.6	8.6	6.4	6.4	6.4
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)