

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: P638256

Luminaire Tested: GWS-SA4E-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29985.1 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

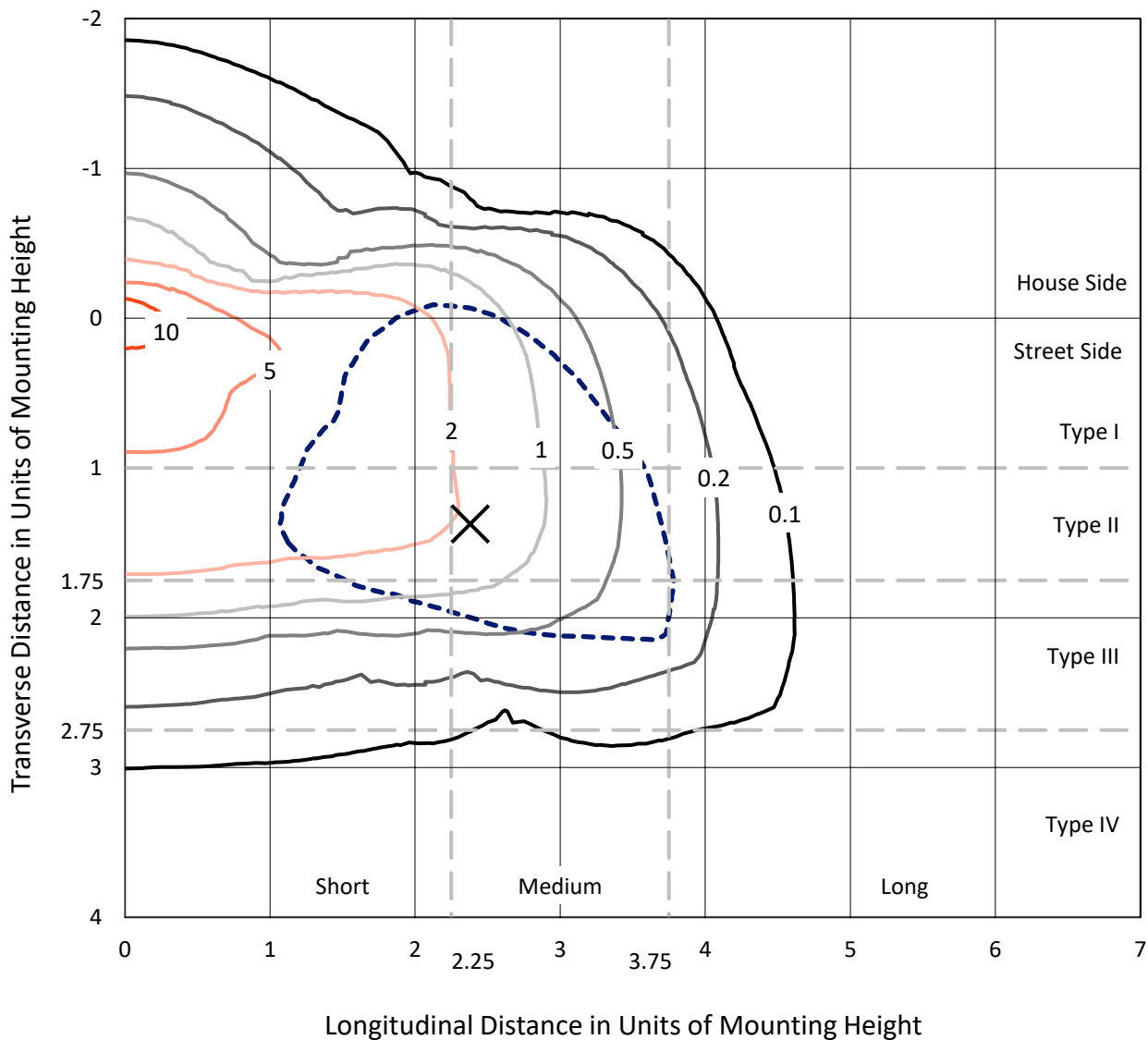
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

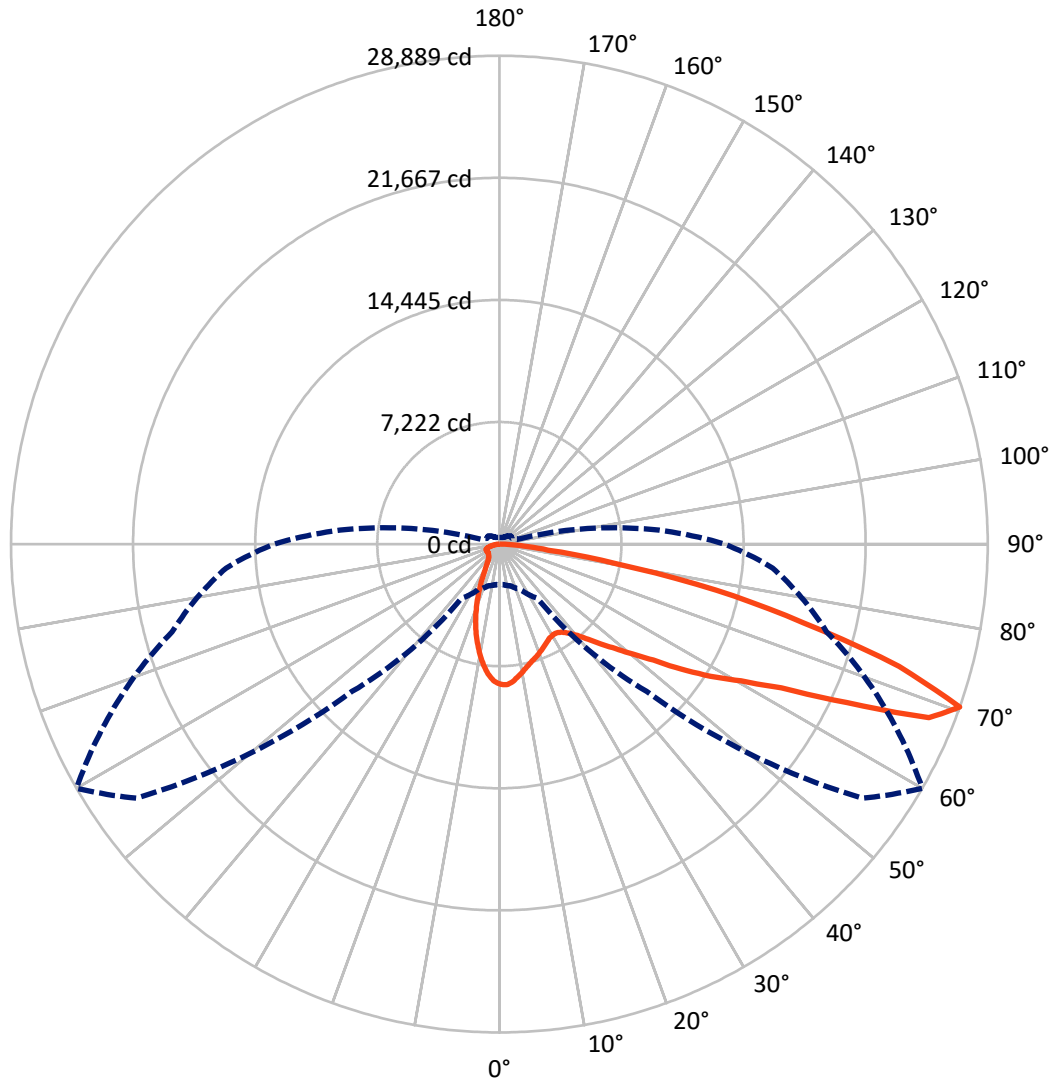
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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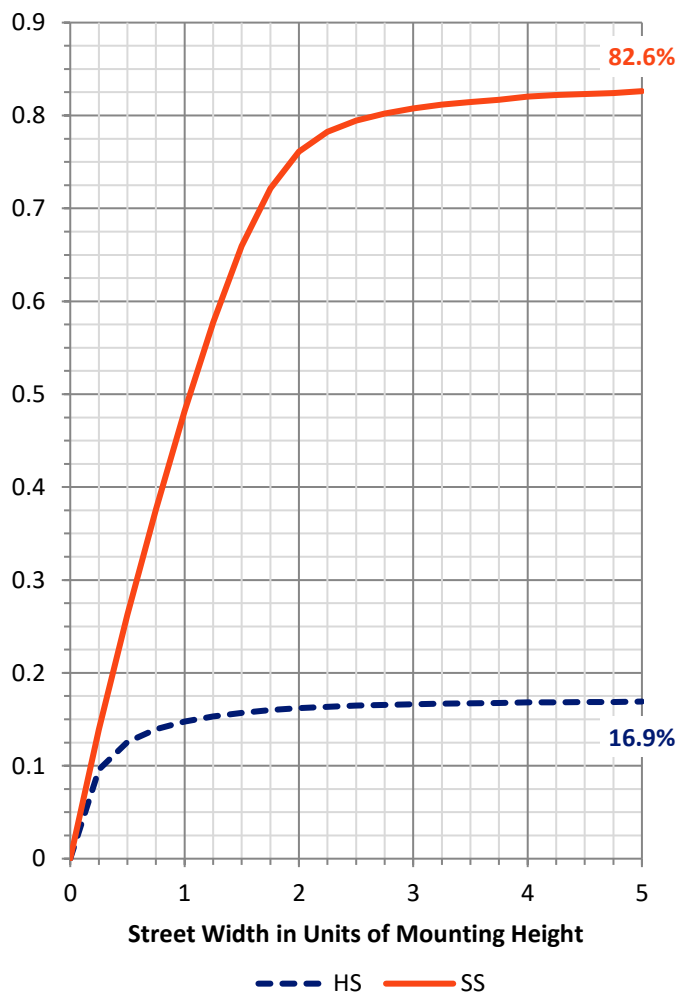
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5128.2	0.0	5128.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24857.0	0.0	24857.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	29985.1	0.0	29985.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.2	2.4
10°-20°	1602.3	5.3
20°-30°	2052.0	6.8
30°-40°	2696.8	9.0
40°-50°	3912.6	13.0
50°-60°	6104.5	20.4
60°-70°	7992.0	26.7
70°-80°	4419.3	14.7
80°-90°	490.4	1.6
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°	29985.1	100.0
0°-180°	29985.1	100.0

Coefficient of Utilization



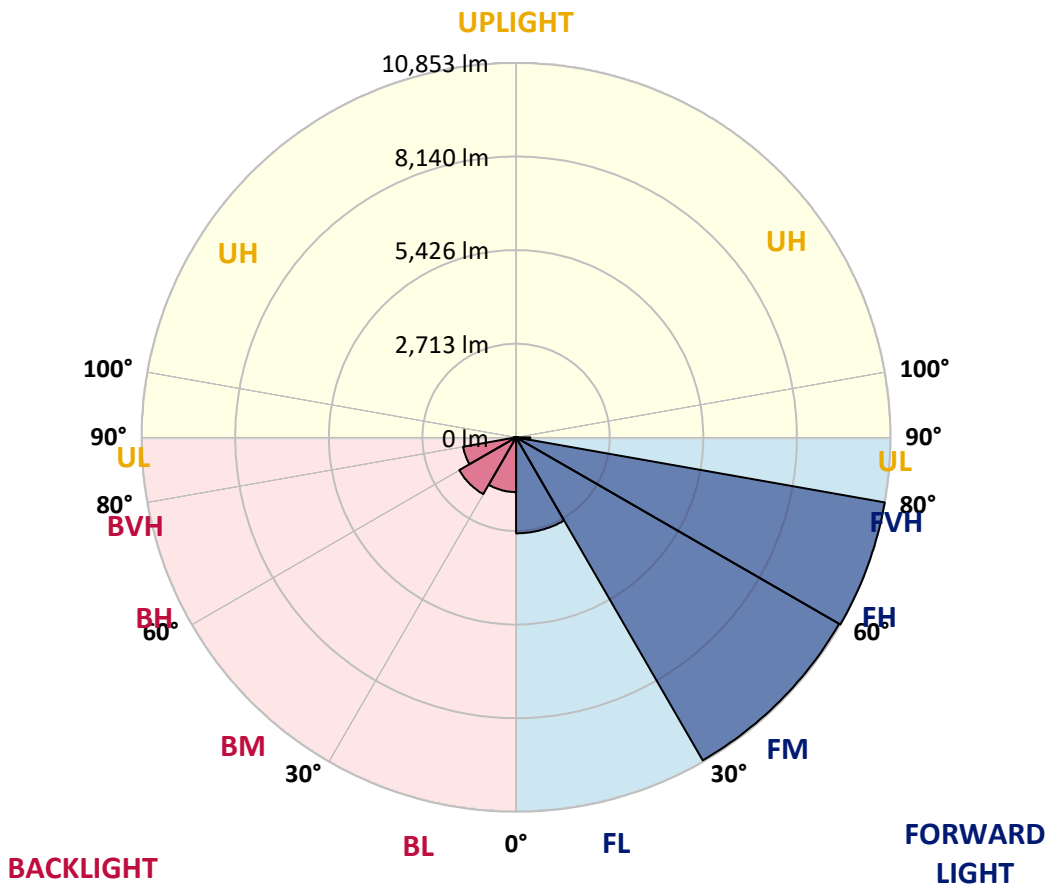
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.8	9.3			
FM (30°-60°)	10812.5	36.1			
FH (60°-80°)	10852.9	36.2			G4/12000
FVH (80°-90°)	408.7	1.4			G3/500
BL (0°-30°)	1586.6	5.3	B3/2500		
BM (30°-60°)	1901.4	6.3	B2/2500		
BH (60°-80°)	1558.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	81.8	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°	60°	65°	75°	85°
0°	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3
2.5°	8181.0	8189.8	8213.9	8249.0	8284.1	8301.7	8345.5	8332.4	8323.6	8306.0	8284.1
5°	7819.0	7836.5	7858.5	7926.5	8003.3	8064.7	8163.4	8174.4	8178.8	8187.6	8152.5
7.5°	7358.3	7362.7	7415.3	7505.3	7606.2	7711.5	7876.0	7922.1	7961.6	8005.5	7977.0
10°	6849.3	6860.3	6899.8	7029.2	7202.5	7358.3	7579.9	7656.7	7740.0	7836.5	7797.1
12.5°	6432.5	6434.7	6498.3	6636.5	6825.2	7035.8	7312.2	7404.4	7514.0	7665.4	7630.3
15°	6101.2	6101.2	6160.4	6278.9	6496.1	6744.0	7073.1	7191.5	7340.7	7544.8	7483.3
17.5°	5837.9	5840.1	5877.4	6002.5	6195.5	6469.8	6860.3	7020.4	7185.0	7454.8	7362.7
20°	5699.7	5688.7	5695.3	5772.1	5936.6	6202.1	6647.5	6833.9	7055.5	7393.4	7253.0
22.5°	5693.1	5673.4	5644.9	5651.4	5748.0	5967.4	6419.3	6645.3	6923.9	7342.9	7141.1
25°	5805.0	5783.1	5732.6	5675.6	5666.8	5798.4	6204.3	6461.0	6787.9	7321.0	7033.6
27.5°	5993.7	5978.3	5912.5	5827.0	5737.0	5732.6	6042.0	6309.6	6689.1	7342.9	6956.8
30°	6243.8	6217.5	6175.8	6066.1	5930.1	5789.7	5978.3	6228.4	6623.3	7413.1	6923.9
32.5°	6526.8	6511.4	6472.0	6362.3	6217.5	5993.7	6028.8	6246.0	6623.3	7536.0	6930.5
35°	6827.4	6825.2	6825.2	6752.8	6592.6	6314.0	6228.4	6395.2	6724.3	7733.4	7000.7
37.5°	7119.2	7117.0	7187.2	7213.5	7031.4	6730.8	6568.5	6693.5	6945.8	8025.2	7174.0
40°	7356.1	7364.9	7518.4	7650.1	7549.2	7270.5	7042.4	7106.0	7305.6	8439.9	7476.8
42.5°	7595.2	7619.4	7849.7	8082.3	8121.8	7880.4	7650.1	7687.4	7821.2	8988.3	7928.7
45°	7856.3	7867.3	8189.8	8514.5	8705.3	8562.7	8374.1	8424.5	8455.2	9666.2	8602.2
47.5°	8108.6	8137.1	8553.9	8999.3	9361.3	9348.1	9242.8	9227.5	9234.1	10491.1	9398.6
50°	8453.0	8494.7	8984.0	9521.5	10052.4	10295.9	10326.6	10210.3	10162.1	11408.2	10390.2
52.5°	9106.8	9106.8	9545.6	10074.3	10787.3	11390.6	11596.9	11406.0	11252.4	12377.9	11443.3
55°	9925.1	9960.2	10309.1	10736.9	11640.7	12542.4	13240.1	13029.5	12595.1	13433.1	12546.8
57.5°	10289.3	10333.2	10886.0	11550.8	12757.4	13852.2	14819.7	14745.1	14111.1	14530.1	13692.0
60°	9631.1	9723.3	10484.6	11599.1	13768.8	15964.9	16647.2	16430.0	15523.9	15681.9	14933.8
62.5°	8034.0	8134.9	8979.6	10535.0	13628.4	18248.7	19527.8	18727.0	17287.8	17136.4	16587.9
65°	4793.6	4789.2	5805.0	7867.3	11897.4	18882.8	24086.6	22592.6	20012.6	19132.9	18290.4
67.5°	3047.3	3040.7	3253.5	4168.4	7917.7	17329.5	27017.7	27406.0	23713.7	20600.6	18430.8
70°	2404.5	2402.3	2555.9	2972.7	3916.1	12331.8	26201.5	28889.1	25949.2	20041.1	16228.2
72.5°	1752.9	1757.3	1994.2	2490.1	3021.0	6191.1	21217.0	24718.5	23867.3	17691.5	13174.3
75°	1259.3	1265.9	1408.5	1906.5	2786.2	3385.2	14108.9	18586.6	18158.8	14181.3	9062.9
77.5°	800.8	809.5	934.6	1336.1	2250.9	2733.6	8553.9	13121.6	12081.7	7990.1	3222.8
80°	489.2	517.8	623.1	996.0	1799.0	2051.3	4275.9	6912.9	6050.7	2191.7	1083.8
82.5°	252.3	274.2	375.2	616.5	1239.5	1801.2	2419.9	2904.7	1873.6	917.0	577.0
85°	79.0	92.1	131.6	250.1	590.2	1116.7	1601.5	1443.6	860.0	432.2	267.7
87.5°	19.7	19.7	21.9	21.9	24.1	50.5	309.3	326.9	228.2	136.0	109.7
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°	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3	8297.3
2.5°	8240.2	8187.6	8165.6	8163.4	8108.6	8029.6	7977.0	7939.7	7917.7	7913.3	7913.3
5°	8093.2	8025.2	7935.3	7867.3	7720.3	7571.1	7446.0	7375.8	7294.7	7283.7	7281.5
7.5°	7898.0	7799.3	7628.1	7437.3	7180.6	6932.7	6722.1	6579.5	6436.9	6410.5	6401.8
10°	7687.4	7553.5	7261.8	6926.1	6542.2	6171.4	5848.9	5596.6	5429.9	5311.4	5289.5
12.5°	7478.9	7301.2	6873.4	6373.2	5846.7	5339.9	4855.1	4442.6	4144.2	3970.9	3940.2
15°	7283.7	7035.8	6450.0	5811.6	5127.1	4433.8	3747.2	3211.8	2792.8	2643.6	2608.5
17.5°	7106.0	6796.6	6039.8	5230.2	4376.8	3470.7	2689.7	2213.6	1967.9	1893.3	1875.8
20°	6928.3	6550.9	5622.9	4618.1	3580.4	2564.6	1965.7	1741.9	1649.8	1621.3	1612.5
22.5°	6737.4	6281.1	5168.8	4014.8	2775.3	1919.6	1608.1	1509.4	1480.9	1483.1	1480.9
25°	6546.5	6006.9	4692.7	3358.8	2066.6	1557.7	1404.1	1366.8	1373.4	1393.1	1397.5
27.5°	6388.6	5763.3	4225.4	2639.2	1614.7	1340.5	1268.1	1265.9	1290.0	1316.3	1320.7
30°	6274.5	5546.1	3764.7	2029.3	1329.5	1191.3	1162.8	1175.9	1204.4	1224.2	1230.8
32.5°	6193.3	5359.7	3273.3	1595.0	1165.0	1086.0	1072.8	1086.0	1103.5	1123.3	1127.7
35°	6164.8	5223.6	2790.6	1301.0	1053.1	1009.2	1000.4	1007.0	1015.8	1026.7	1031.1
37.5°	6228.4	5155.6	2286.0	1132.0	985.1	958.7	945.6	941.2	943.4	947.8	950.0
40°	6417.1	5186.3	1873.6	1033.3	941.2	917.0	895.1	886.3	884.1	888.5	886.3
42.5°	6741.8	5315.8	1575.2	976.3	906.1	871.0	846.8	838.1	838.1	849.0	849.0
45°	7217.9	5570.3	1360.2	934.6	875.4	831.5	805.2	800.8	809.5	827.1	829.3
47.5°	7915.5	5943.2	1230.8	903.9	846.8	796.4	770.1	767.9	785.4	813.9	816.1
50°	8742.6	6480.7	1160.6	881.9	827.1	767.9	741.5	743.7	763.5	794.2	800.8
52.5°	9738.6	7213.5	1165.0	873.2	816.1	750.3	724.0	719.6	739.3	770.1	776.6
55°	10767.6	8104.2	1250.5	875.4	800.8	741.5	706.4	691.1	708.6	730.6	732.8
57.5°	11899.6	9109.0	1463.3	871.0	781.0	732.8	691.1	656.0	666.9	680.1	686.7
60°	13176.5	10291.5	1921.8	879.7	772.2	713.0	660.4	614.3	612.1	620.9	623.1
62.5°	14883.3	11899.6	2437.4	895.1	792.0	688.9	614.3	566.0	557.2	561.6	563.8
65°	16188.7	12667.5	2275.1	881.9	833.7	671.3	570.4	520.0	502.4	498.0	498.0
67.5°	15657.7	11651.7	1584.0	846.8	853.4	673.5	535.3	471.7	449.7	438.8	436.6
70°	13323.5	9464.4	1101.3	811.7	831.5	669.1	498.0	432.2	403.7	388.3	386.1
72.5°	10526.3	7226.7	890.7	741.5	754.7	603.3	443.2	388.3	364.2	344.4	344.4
75°	6774.7	4409.7	743.7	660.4	616.5	469.5	383.9	346.6	322.5	302.8	302.8
77.5°	2279.4	1636.6	577.0	559.4	460.7	353.2	322.5	298.4	278.6	261.1	258.9
80°	925.8	776.6	423.4	423.4	322.5	269.8	252.3	241.3	228.2	206.2	206.2
82.5°	537.5	471.7	296.2	256.7	215.0	186.5	175.5	164.5	164.5	149.2	149.2
85°	258.9	261.1	177.7	158.0	122.9	107.5	103.1	96.5	94.3	85.6	83.4
87.5°	140.4	142.6	89.9	70.2	48.3	41.7	35.1	32.9	30.7	28.5	28.5
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)