

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: P640477

Luminaire Tested: GWS-SA5D-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20368.2 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

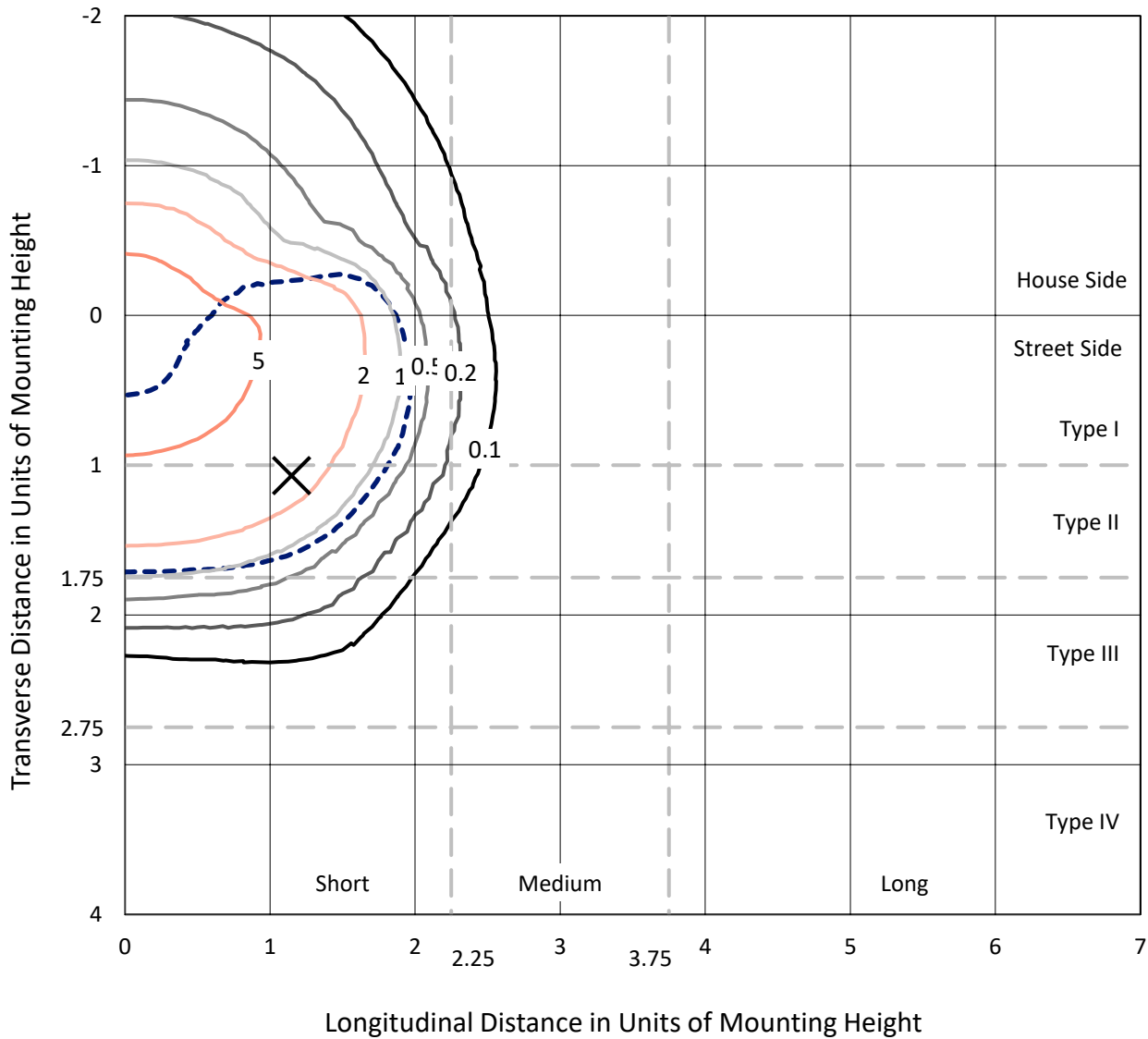
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

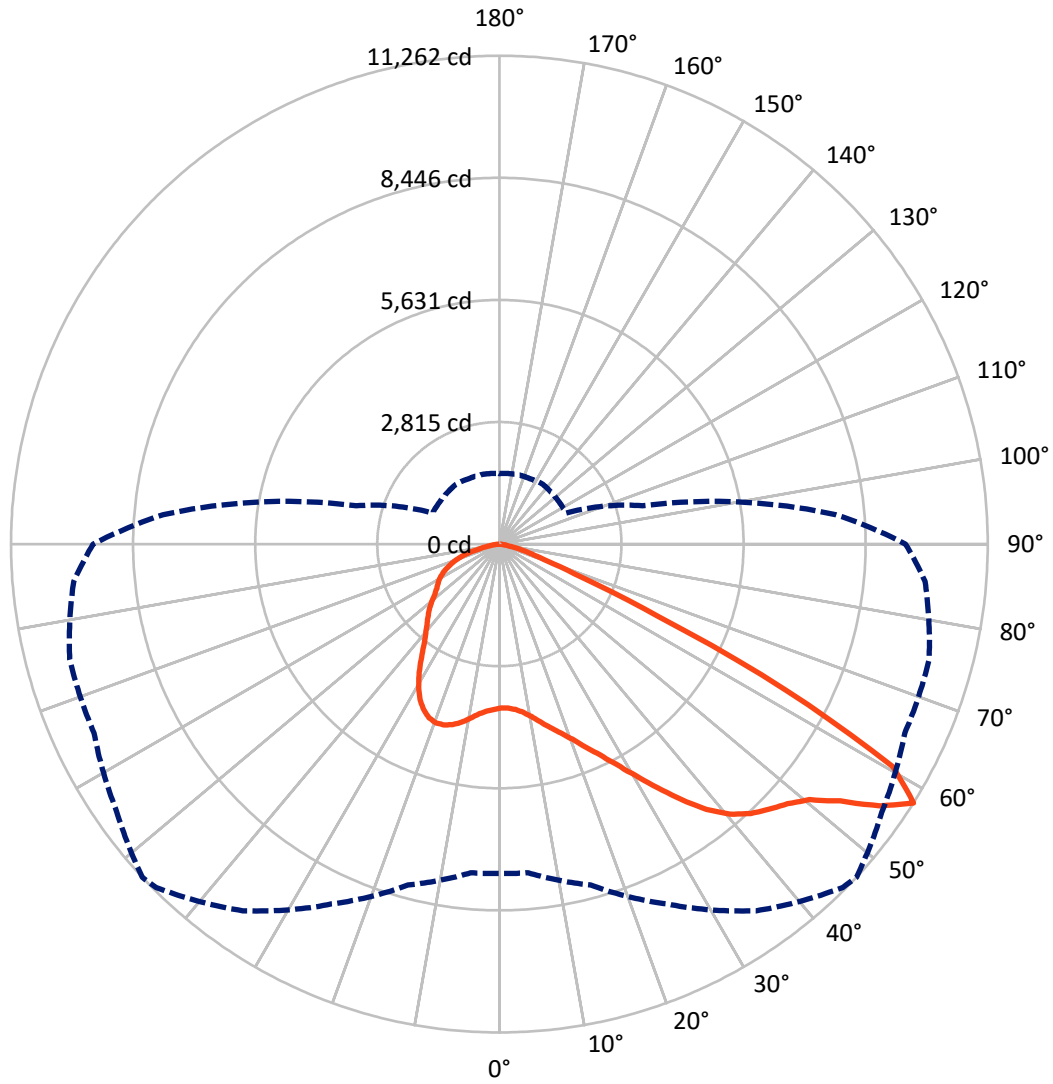
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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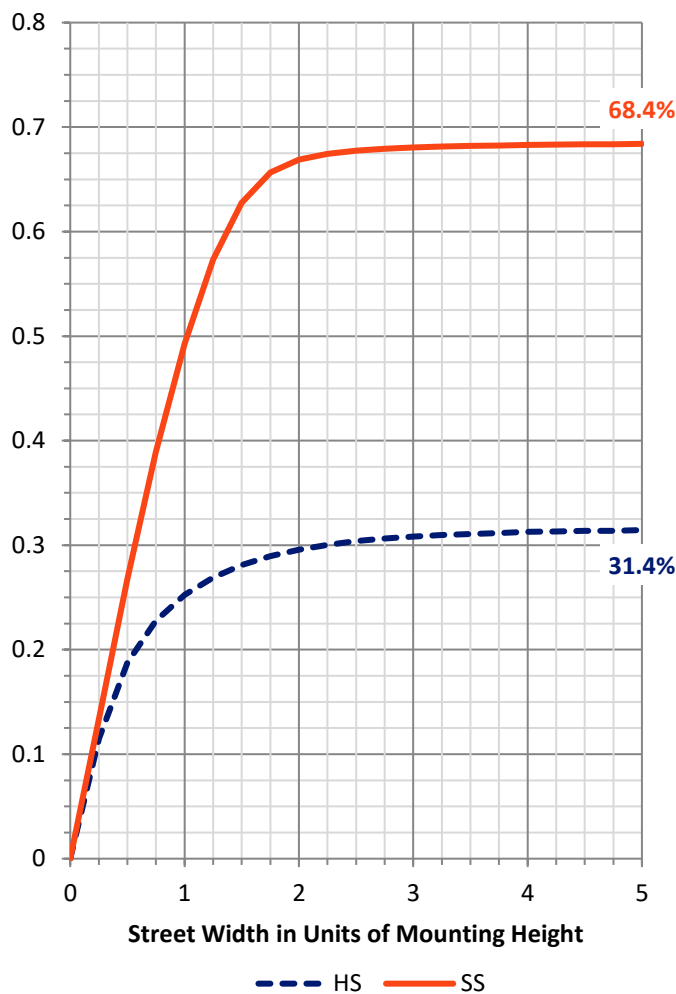
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6446.5	0.0	6446.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13921.7	0.0	13921.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	20368.2	0.0	20368.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	1.8
10°-20°	1225.4	6.0
20°-30°	2206.4	10.8
30°-40°	3332.6	16.4
40°-50°	4487.7	22.0
50°-60°	5392.6	26.5
60°-70°	2626.3	12.9
70°-80°	647.0	3.2
80°-90°	77.8	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°	20368.2	100.0
0°-180°	20368.2	100.0

Coefficient of Utilization



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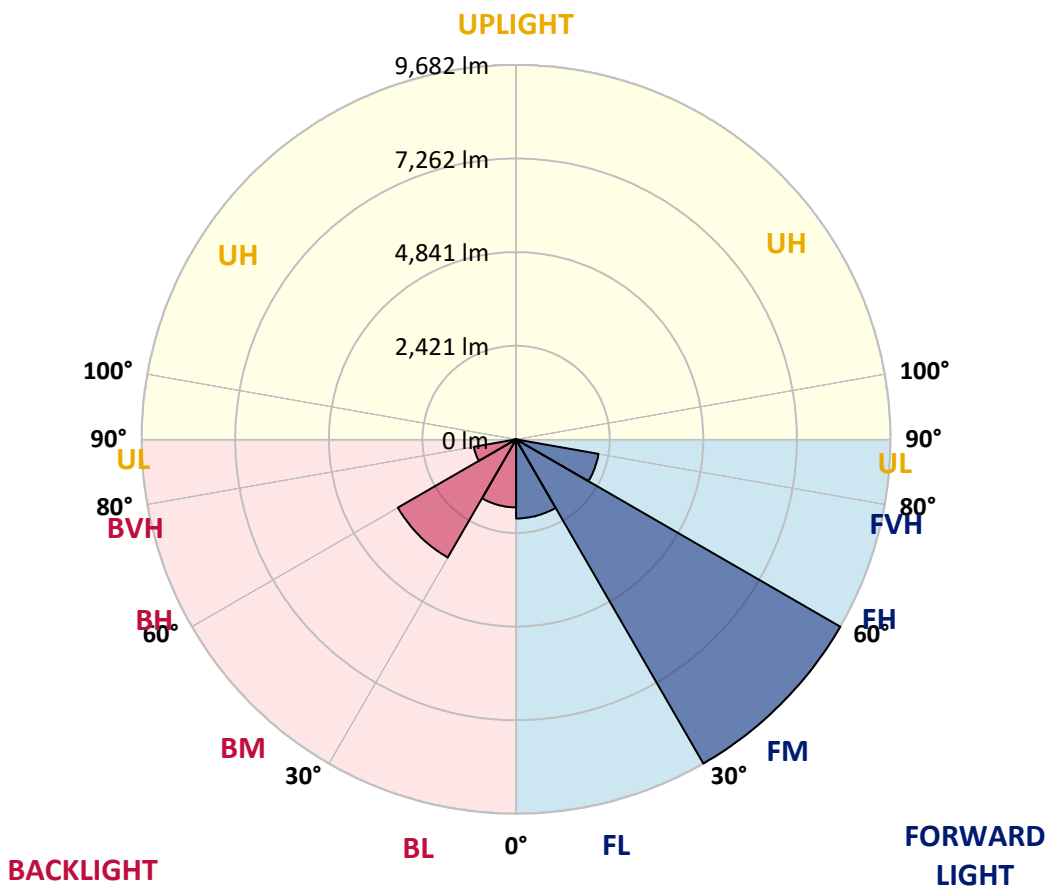
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.9	10.0			
FM (30°-60°)	9682.1	47.5			
FH (60°-80°)	2164.5	10.6			G2/5000
FVH (80°-90°)	29.2	0.1			G1/100
BL (0°-30°)	1758.5	8.6	B3/2500		
BM (30°-60°)	3530.7	17.3	B3/5000		
BH (60°-80°)	1108.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	48.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3
2.5°	3770.5	3768.8	3768.8	3779.0	3779.0	3782.4	3787.6	3792.7	3794.4	3785.9	3767.0
5°	3811.5	3811.5	3811.5	3820.1	3820.1	3823.5	3830.3	3832.1	3830.3	3816.7	3797.8
7.5°	3876.5	3876.5	3878.2	3888.5	3897.1	3902.2	3914.2	3912.5	3907.3	3885.1	3861.1
10°	3982.6	3987.7	3992.9	4004.8	4021.9	4033.9	4042.5	4042.5	4035.6	4001.4	3970.6
12.5°	4133.1	4140.0	4145.1	4155.4	4169.1	4189.6	4208.4	4208.4	4199.9	4157.1	4110.9
15°	4309.4	4316.2	4314.5	4317.9	4343.6	4372.6	4388.0	4398.3	4401.7	4341.9	4270.0
17.5°	4511.2	4518.1	4511.2	4501.0	4504.4	4550.6	4577.9	4615.6	4637.8	4557.4	4442.8
20°	4694.3	4687.4	4687.4	4694.3	4704.5	4761.0	4802.0	4863.6	4891.0	4793.5	4615.6
22.5°	4887.6	4903.0	4896.1	4896.1	4937.2	5031.3	5080.9	5161.3	5190.4	5063.8	4824.3
25°	5137.3	5151.0	5147.6	5151.0	5198.9	5332.4	5382.0	5530.8	5559.9	5378.6	5055.2
27.5°	5411.1	5433.3	5443.6	5440.2	5517.1	5691.6	5753.2	5960.2	6013.2	5731.0	5301.6
30°	5766.9	5790.9	5799.4	5796.0	5886.7	6124.4	6194.6	6430.7	6505.9	6148.4	5614.6
32.5°	6179.2	6203.1	6228.8	6239.1	6355.4	6598.3	6699.3	6943.9	7051.7	6630.8	5992.7
35°	6588.1	6608.6	6658.2	6738.6	6897.7	7145.8	7234.7	7475.9	7580.3	7132.1	6449.5
37.5°	7039.7	7053.4	7096.1	7207.3	7436.6	7672.7	7761.6	7992.6	8004.5	7616.2	6966.1
40°	7534.1	7534.1	7525.5	7635.0	7874.5	8112.3	8189.3	8322.7	8252.6	7989.2	7469.1
42.5°	7953.2	7946.4	7953.2	8055.9	8233.8	8427.1	8493.8	8468.2	8379.2	8274.8	7924.1
45°	8331.3	8336.4	8398.0	8476.7	8569.1	8683.7	8723.1	8577.6	8497.2	8504.1	8288.5
47.5°	8587.9	8593.0	8736.7	8868.5	8924.9	8960.9	8943.7	8741.9	8700.8	8777.8	8569.1
50°	8622.1	8649.5	8897.6	9167.9	9308.1	9313.3	9265.4	9019.0	9007.0	9094.3	8719.6
52.5°	8629.0	8656.3	8966.0	9453.5	9817.9	9894.9	9840.2	9583.6	9458.7	9371.4	8904.4
55°	8603.3	8634.1	8976.2	9645.1	10343.1	10651.1	10656.2	10293.5	9894.9	9836.8	9431.3
57.5°	7595.7	7607.7	8138.0	9157.6	10322.6	11195.1	11261.8	10769.1	10314.0	10259.3	9853.9
60°	5291.3	5339.2	5915.7	7262.1	8671.7	10209.7	10425.2	10281.5	9977.0	9578.4	8454.5
62.5°	2649.9	2691.0	3269.2	4542.0	5980.7	7195.4	7426.3	7578.6	7650.4	7222.7	5756.6
65°	1141.1	1171.9	1531.1	2372.8	3385.6	3972.3	4052.7	4235.8	4684.0	4179.3	3101.6
67.5°	763.0	783.5	966.6	1447.3	1994.7	2032.4	2020.4	2059.7	2157.2	1780.9	1401.1
70°	585.1	602.2	725.4	1060.7	1433.6	1226.6	1161.6	1053.8	1144.5	1166.7	1135.9
72.5°	424.3	437.9	530.3	723.6	898.1	783.5	773.3	828.0	951.2	985.4	966.6
75°	273.7	280.6	337.0	396.9	463.6	503.0	523.5	622.7	747.6	773.3	751.0
77.5°	183.0	188.2	220.7	254.9	263.5	265.2	272.0	316.5	402.0	449.9	444.8
80°	95.8	95.8	107.8	107.8	123.2	147.1	154.0	183.0	222.4	246.3	248.1
82.5°	37.6	39.3	46.2	51.3	61.6	75.3	80.4	95.8	116.3	133.4	148.8
85°	15.4	17.1	18.8	22.2	27.4	34.2	35.9	41.1	54.7	68.4	77.0
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	5.1	6.8	8.6	15.4	20.5
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°	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3	3777.3
2.5°	3789.3	3767.0	3789.3	3796.1	3814.9	3821.8	3809.8	3808.1	3808.1	3791.0	3785.9
5°	3814.9	3794.4	3816.7	3826.9	3854.3	3871.4	3874.8	3888.5	3897.1	3890.2	3888.5
7.5°	3878.2	3852.6	3876.5	3891.9	3927.9	3955.2	3967.2	3998.0	4020.2	4016.8	4015.1
10°	3989.4	3955.2	3982.6	4008.3	4047.6	4080.1	4081.8	4098.9	4121.2	4114.3	4110.9
12.5°	4117.7	4085.2	4116.0	4141.7	4187.9	4201.6	4179.3	4172.5	4175.9	4167.4	4160.5
15°	4275.1	4228.9	4256.3	4285.4	4311.1	4295.7	4247.8	4228.9	4227.2	4215.3	4208.4
17.5°	4432.5	4374.4	4394.9	4410.3	4398.3	4350.4	4290.5	4258.0	4242.6	4218.7	4211.8
20°	4588.2	4514.6	4511.2	4499.2	4444.5	4357.3	4276.8	4211.8	4172.5	4140.0	4128.0
22.5°	4766.1	4663.5	4612.2	4557.4	4437.7	4295.7	4174.2	4081.8	4018.5	3977.5	3963.8
25°	4957.7	4812.3	4706.2	4596.8	4369.2	4163.9	3994.6	3868.0	3792.7	3748.2	3732.8
27.5°	5147.6	4947.5	4788.4	4601.9	4232.4	3974.0	3746.5	3575.4	3500.2	3464.2	3452.3
30°	5404.2	5127.1	4885.9	4535.2	4052.7	3710.6	3426.6	3253.8	3204.2	3178.6	3168.3
32.5°	5700.2	5354.6	5015.9	4394.9	3823.5	3402.7	3103.3	2983.5	2949.3	2899.7	2898.0
35°	6090.2	5679.7	5139.1	4187.9	3534.4	3072.5	2855.2	2769.7	2708.1	2629.4	2622.6
37.5°	6545.3	6085.1	5205.8	3924.4	3197.4	2800.5	2670.5	2574.7	2475.4	2371.1	2357.4
40°	7015.7	6559.0	5210.9	3613.1	2867.2	2620.9	2511.4	2386.5	2263.3	2147.0	2131.6
42.5°	7510.1	7000.3	5120.2	3253.8	2596.9	2465.2	2354.0	2196.6	2058.0	1979.3	1970.8
45°	7951.5	7356.2	4915.0	2875.8	2396.7	2335.2	2193.2	2023.8	1950.2	1893.8	1881.8
47.5°	8298.8	7592.3	4637.8	2537.0	2234.2	2201.7	2017.0	1929.7	1873.3	1821.9	1810.0
50°	8469.9	7645.3	4276.8	2261.6	2083.7	2044.3	1917.7	1851.0	1813.4	1772.3	1762.1
52.5°	8682.0	7705.2	3965.5	2030.6	1936.6	1883.5	1835.6	1782.6	1755.2	1729.6	1721.0
55°	9169.6	7931.0	3801.3	1845.9	1796.3	1772.3	1765.5	1721.0	1712.4	1695.3	1679.9
57.5°	9368.0	7785.6	3412.9	1695.3	1685.1	1688.5	1705.6	1664.5	1656.0	1635.5	1625.2
60°	7534.1	5884.9	2311.2	1565.3	1592.7	1614.9	1632.0	1591.0	1579.0	1575.6	1561.9
62.5°	4827.7	3619.9	1613.2	1443.9	1484.9	1512.3	1522.6	1483.2	1474.7	1502.0	1503.7
65°	2513.1	1972.5	1308.7	1313.8	1348.1	1389.1	1409.6	1396.0	1392.5	1421.6	1423.3
67.5°	1283.1	1206.1	1141.1	1159.9	1187.3	1240.3	1288.2	1348.1	1368.6	1372.0	1373.7
70°	1093.2	1058.9	1026.4	1038.4	1067.5	1096.6	1142.8	1171.9	1137.6	1129.1	1125.7
72.5°	930.6	905.0	889.6	903.3	918.7	913.5	899.8	913.5	918.7	920.4	922.1
75°	723.6	704.8	692.8	694.6	694.6	675.7	650.1	634.7	617.6	603.9	603.9
77.5°	443.1	446.5	458.5	456.8	455.1	448.2	422.6	408.9	367.8	355.8	355.8
80°	253.2	258.3	270.3	273.7	273.7	265.2	239.5	224.1	205.3	196.7	195.0
82.5°	154.0	160.8	167.7	171.1	172.8	162.5	140.3	128.3	118.0	109.5	109.5
85°	80.4	83.8	90.7	92.4	87.2	77.0	65.0	59.9	49.6	47.9	47.9
87.5°	22.2	24.0	27.4	22.2	20.5	15.4	8.6	6.8	3.4	1.7	1.7
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)