

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: P640811

Luminaire Tested: GWS-SA5E-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33667.4 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

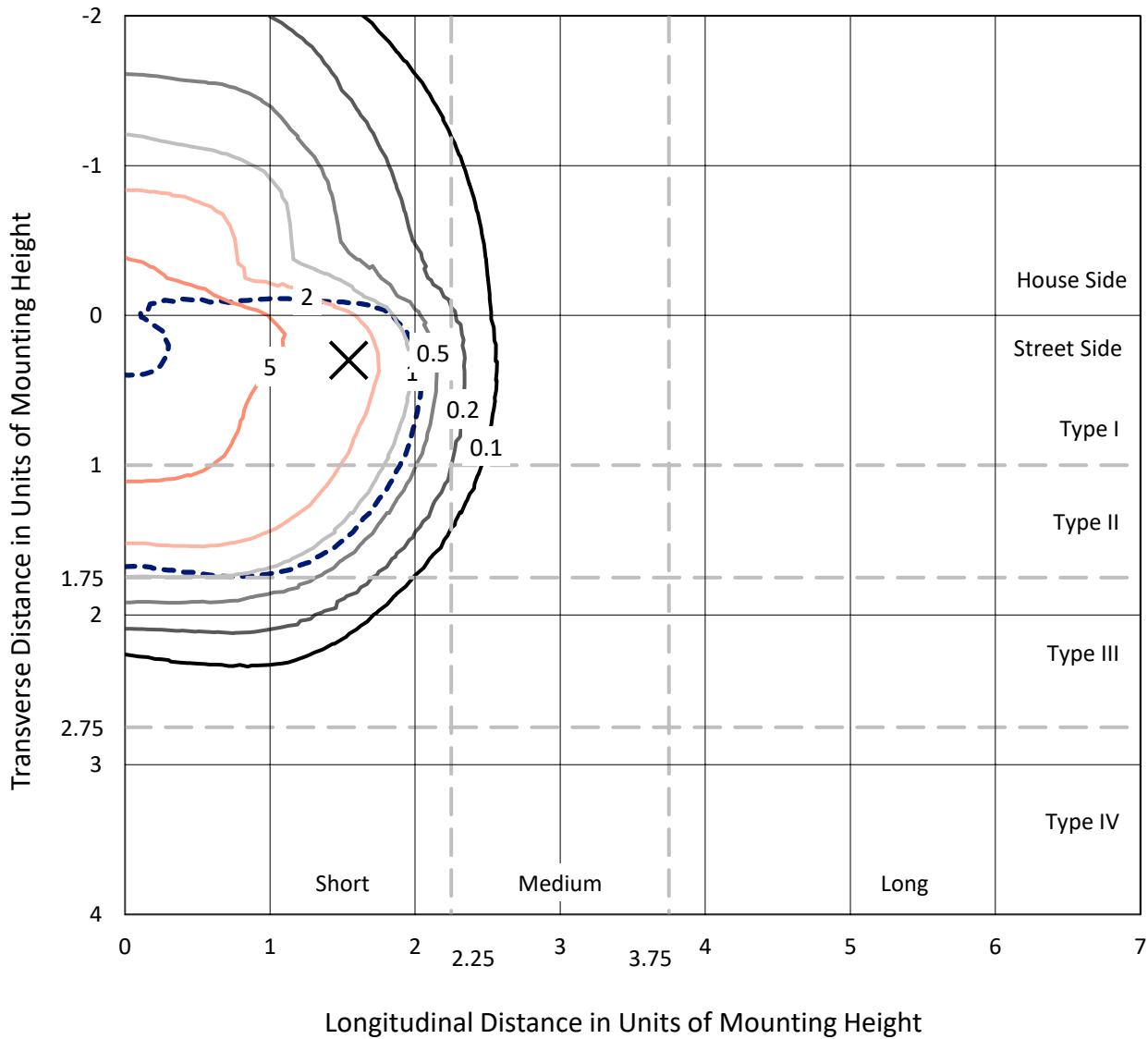
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

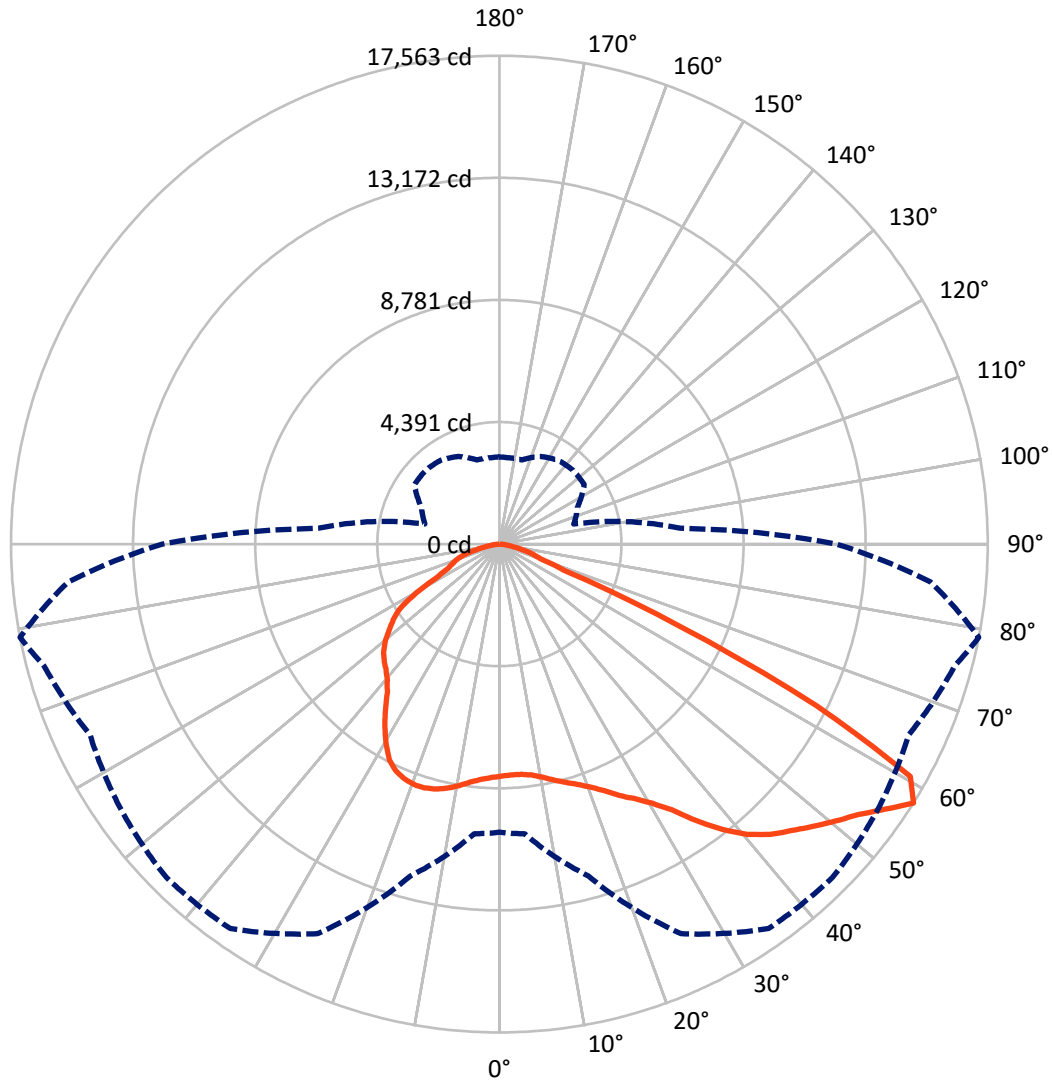
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10007.8	0.0	10007.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	23659.6	0.0	23659.6
	% Fixture	70.3	0.0	70.3
Total	Lumens	33667.4	0.0	33667.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.7	2.3
10°-20°	2147.3	6.4
20°-30°	3639.8	10.8
30°-40°	5571.1	16.5
40°-50°	7428.6	22.1
50°-60°	8579.4	25.5
60°-70°	4458.1	13.2
70°-80°	947.7	2.8
80°-90°	122.7	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°	33667.4	100.0
0°-180°	33667.4	100.0

Coefficient of Utilization



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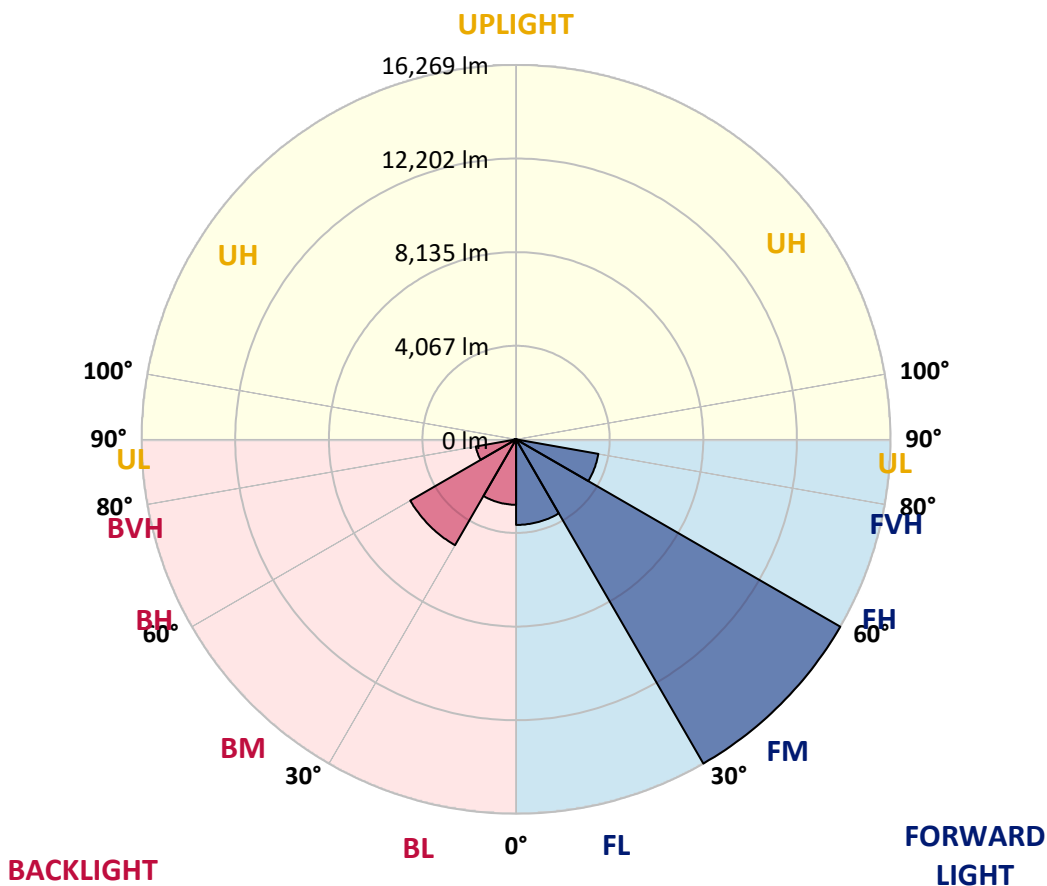
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3717.6	11.0			
FM (30°-60°)	16269.0	48.3			
FH (60°-80°)	3630.2	10.8			G2/5000
FVH (80°-90°)	42.8	0.1			G1/100
BL (0°-30°)	2842.1	8.4	B4/5000		
BM (30°-60°)	5310.0	15.8	B4/8500		
BH (60°-80°)	1775.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	80.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6
2.5°	7963.7	7947.2	7952.7	7974.7	8057.3	8117.8	8181.1	8239.0	8294.0	8310.5	8324.3
5°	7680.1	7649.9	7658.1	7693.9	7790.3	7892.1	8005.0	8142.6	8274.7	8318.8	8376.6
7.5°	7479.2	7473.7	7487.5	7542.5	7644.4	7740.7	7886.6	8082.0	8310.5	8384.9	8486.7
10°	7212.2	7201.2	7256.2	7369.1	7537.0	7691.2	7864.6	8095.8	8415.1	8525.2	8682.1
12.5°	7000.2	6994.7	7052.5	7209.4	7424.1	7669.1	7908.6	8167.4	8555.5	8706.9	8899.6
15°	7124.1	7099.3	7102.1	7212.2	7404.9	7693.9	8018.7	8296.8	8695.9	8888.6	9136.3
17.5°	7484.7	7440.7	7407.6	7426.9	7537.0	7837.1	8186.7	8470.2	8858.3	9084.0	9386.8
20°	7983.0	7958.2	7867.3	7806.8	7831.6	8095.8	8450.9	8715.2	9070.3	9323.5	9648.4
22.5°	8651.9	8591.3	8467.4	8371.1	8296.8	8503.2	8830.8	9059.3	9364.8	9629.1	9967.7
25°	9480.4	9392.4	9196.9	9045.5	8885.9	9097.8	9389.6	9563.0	9769.5	10014.5	10336.5
27.5°	10325.5	10251.2	10033.7	9830.0	9631.8	9764.0	10110.8	10209.9	10187.9	10366.8	10642.1
30°	11225.7	11132.1	10925.6	10705.4	10449.4	10534.7	10845.8	10895.4	10661.4	10810.0	10997.2
32.5°	12175.4	12084.5	11905.6	11649.6	11360.6	11393.6	11478.9	11525.7	11302.8	11388.1	11531.2
35°	13141.6	13056.3	12874.6	12621.3	12409.4	12208.4	11993.7	12180.9	12051.5	12216.7	12205.7
37.5°	14025.2	13939.9	13827.0	13631.6	13268.2	12871.8	12376.3	12607.6	12808.5	13017.7	12981.9
40°	14622.6	14564.8	14592.3	14562.0	14094.0	13309.5	12563.5	12816.8	13364.6	13722.4	13703.1
42.5°	15137.3	15079.5	15239.2	15354.8	14804.2	13714.2	12654.4	12896.6	13719.7	14278.5	14250.9
45°	15365.8	15349.3	15613.6	15979.7	15453.9	14143.6	12888.3	13061.8	13989.4	14705.1	14600.5
47.5°	15093.3	15151.1	15671.4	16290.7	15993.4	14652.8	13367.3	13411.4	14341.8	15167.6	14873.1
50°	14551.0	14677.6	15379.6	16299.0	16387.1	15228.2	14030.7	13920.6	14815.3	15660.3	15016.2
52.5°	13761.0	13893.1	15038.2	16235.7	16612.8	15894.3	14914.4	14757.4	15412.6	16153.1	15041.0
55°	11946.9	12125.8	14256.4	16092.5	16833.0	16499.9	15910.8	15591.5	16183.4	16830.3	15286.0
57.5°	10364.1	10457.7	12351.6	15456.6	16877.1	16945.9	16621.1	16241.2	16948.6	17562.5	15561.2
60°	7605.8	7627.8	9331.8	12789.2	15525.5	16687.1	16563.2	15998.9	16585.3	16976.2	14300.5
62.5°	4297.0	4299.8	5659.6	8536.3	11597.3	13601.3	13678.4	13180.1	12687.4	12803.0	9953.9
65°	1613.1	1764.5	2584.8	4195.2	6686.4	8029.7	8349.1	8464.7	7644.4	7135.1	5337.6
67.5°	1079.1	1114.9	1508.5	2158.1	2975.7	3435.4	3842.8	3853.8	2818.8	2513.3	2103.1
70°	823.1	858.9	1186.4	1544.3	1508.5	1392.9	1505.7	1464.5	1514.0	1555.3	1599.3
72.5°	613.9	649.6	919.4	1090.1	905.7	891.9	1010.3	1123.1	1227.7	1271.8	1340.6
75°	407.4	434.9	619.4	583.6	501.0	591.8	737.7	850.6	911.2	963.5	1015.8
77.5°	258.8	278.0	330.3	267.0	278.0	346.8	429.4	531.3	589.1	641.4	668.9
80°	118.4	115.6	112.9	126.6	156.9	203.7	258.8	319.3	363.4	385.4	401.9
82.5°	46.8	52.3	57.8	68.8	85.3	110.1	145.9	187.2	223.0	228.5	242.2
85°	19.3	22.0	24.8	30.3	38.5	49.5	60.6	85.3	107.4	115.6	123.9
87.5°	0.0	0.0	0.0	0.0	2.8	5.5	8.3	13.8	24.8	27.5	30.3
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°	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6	8343.6
2.5°	8398.6	8362.8	8423.4	8464.7	8503.2	8461.9	8448.2	8412.4	8406.9	8406.9	8426.1
5°	8475.7	8450.9	8514.2	8539.0	8536.3	8445.4	8390.4	8318.8	8283.0	8283.0	8288.5
7.5°	8613.3	8599.6	8635.4	8596.8	8508.7	8324.3	8142.6	7991.2	7889.4	7837.1	7853.6
10°	8841.8	8825.3	8795.0	8651.9	8398.6	8016.0	7644.4	7369.1	7203.9	7110.3	7115.8
12.5°	9064.8	9037.3	8929.9	8613.3	8093.1	7484.7	6997.5	6689.2	6507.5	6397.4	6372.6
15°	9309.8	9238.2	9007.0	8415.1	7594.8	6835.1	6325.8	5992.7	5797.3	5731.2	5728.5
17.5°	9543.8	9417.1	8998.7	8062.8	6997.5	6155.1	5643.1	5436.7	5403.6	5433.9	5442.2
20°	9780.5	9576.8	8907.9	7575.5	6287.3	5478.0	5213.7	5299.0	5422.9	5505.5	5524.8
22.5°	10025.5	9708.9	8701.4	6947.9	5538.5	5021.0	5131.1	5318.3	5472.5	5582.6	5593.6
25°	10300.8	9832.8	8393.1	6179.9	4938.4	4894.4	5111.8	5310.0	5475.2	5601.8	5623.9
27.5°	10457.7	9835.5	7960.9	5389.9	4663.1	4844.8	5065.0	5252.2	5417.4	5555.0	5579.8
30°	10611.8	9761.2	7275.5	4748.5	4583.3	4787.0	4985.2	5158.6	5315.5	5450.4	5480.7
32.5°	10829.3	9692.4	6485.5	4379.6	4536.5	4732.0	4894.4	5048.5	5169.6	5230.2	5246.7
35°	11099.1	9604.3	5645.9	4220.0	4506.2	4687.9	4831.1	4913.6	4756.7	4723.7	4759.5
37.5°	11476.2	9521.7	4809.0	4151.1	4487.0	4671.4	4798.0	4586.1	4393.4	4316.3	4343.8
40°	11883.6	9474.9	4242.0	4096.1	4495.2	4687.9	4660.4	4346.6	4068.6	3906.1	3900.6
42.5°	12230.4	9403.4	3878.6	4060.3	4517.2	4751.2	4473.2	4134.6	3721.7	3625.4	3628.1
45°	12464.4	9221.7	3685.9	4021.8	4536.5	4765.0	4385.1	3842.8	3548.3	3487.7	3485.0
47.5°	12560.8	8891.4	3562.0	3961.2	4533.8	4652.1	4206.2	3721.7	3427.2	3410.6	3421.7
50°	12497.4	8349.1	3435.4	3842.8	4467.7	4533.8	3999.7	3614.3	3344.6	3435.4	3501.5
52.5°	12263.5	7647.1	3284.0	3680.4	4349.3	4398.9	3895.1	3548.3	3284.0	3405.1	3457.4
55°	12202.9	7077.3	3091.3	3468.5	4173.2	4159.4	3785.0	3515.3	3242.7	3195.9	3204.2
57.5°	12123.1	6521.2	2772.0	3088.6	3727.2	3749.2	3680.4	3476.7	3135.4	3121.6	3135.4
60°	10532.0	4999.0	2472.0	2664.7	3061.0	3179.4	3562.0	3405.1	2962.0	2904.1	2901.4
62.5°	6879.1	3028.0	2199.4	2323.3	2494.0	2631.6	3248.2	3198.7	2772.0	2736.2	2761.0
65°	3699.7	2158.1	2001.2	2075.6	2169.2	2273.8	2692.2	2849.1	2505.0	2378.4	2381.1
67.5°	1891.1	1836.1	1852.6	1904.9	1976.5	2028.8	2171.9	2309.6	2136.1	2028.8	2026.0
70°	1618.6	1662.7	1687.4	1717.7	1764.5	1756.2	1770.0	1794.8	1781.0	1728.7	1726.0
72.5°	1379.1	1447.9	1453.4	1459.0	1475.5	1436.9	1412.2	1370.9	1373.6	1381.9	1384.6
75°	1048.8	1114.9	1131.4	1123.1	1139.6	1090.1	1057.1	1015.8	966.2	958.0	963.5
77.5°	682.7	735.0	759.8	754.3	762.5	724.0	707.5	663.4	605.6	583.6	583.6
80°	412.9	443.2	462.5	468.0	476.2	448.7	421.2	382.6	357.9	333.1	333.1
82.5°	250.5	269.8	283.5	283.5	291.8	261.5	239.5	212.0	201.0	178.9	178.9
85°	126.6	140.4	145.9	143.1	137.6	112.9	104.6	90.8	85.3	74.3	74.3
87.5°	30.3	38.5	38.5	27.5	27.5	13.8	8.3	2.8	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)