

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: P635823

Luminaire Tested: GWS-SA3E-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20407.9 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 159.2
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

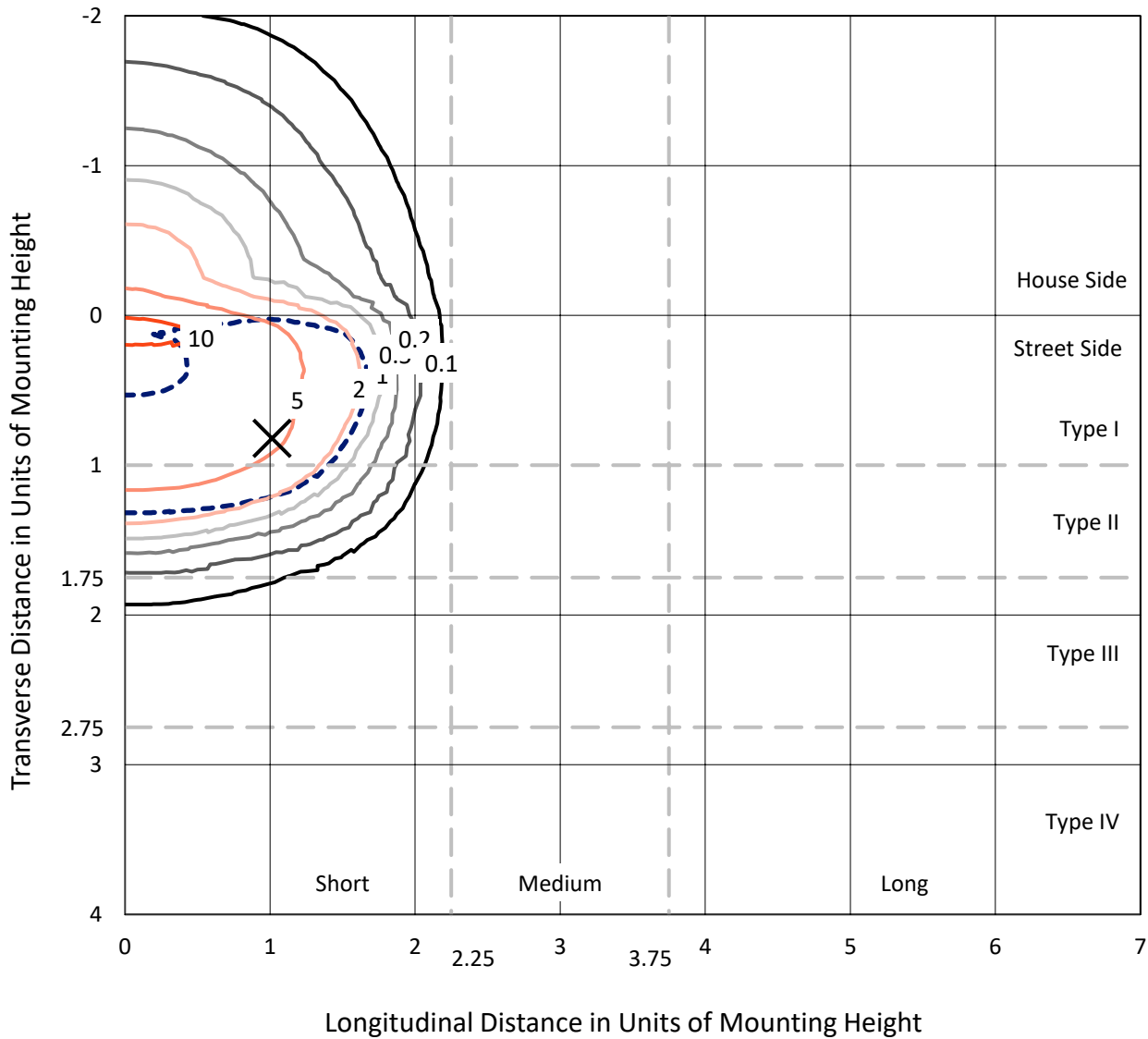


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Iso-Footcandle Lines of Horizontal Illumination

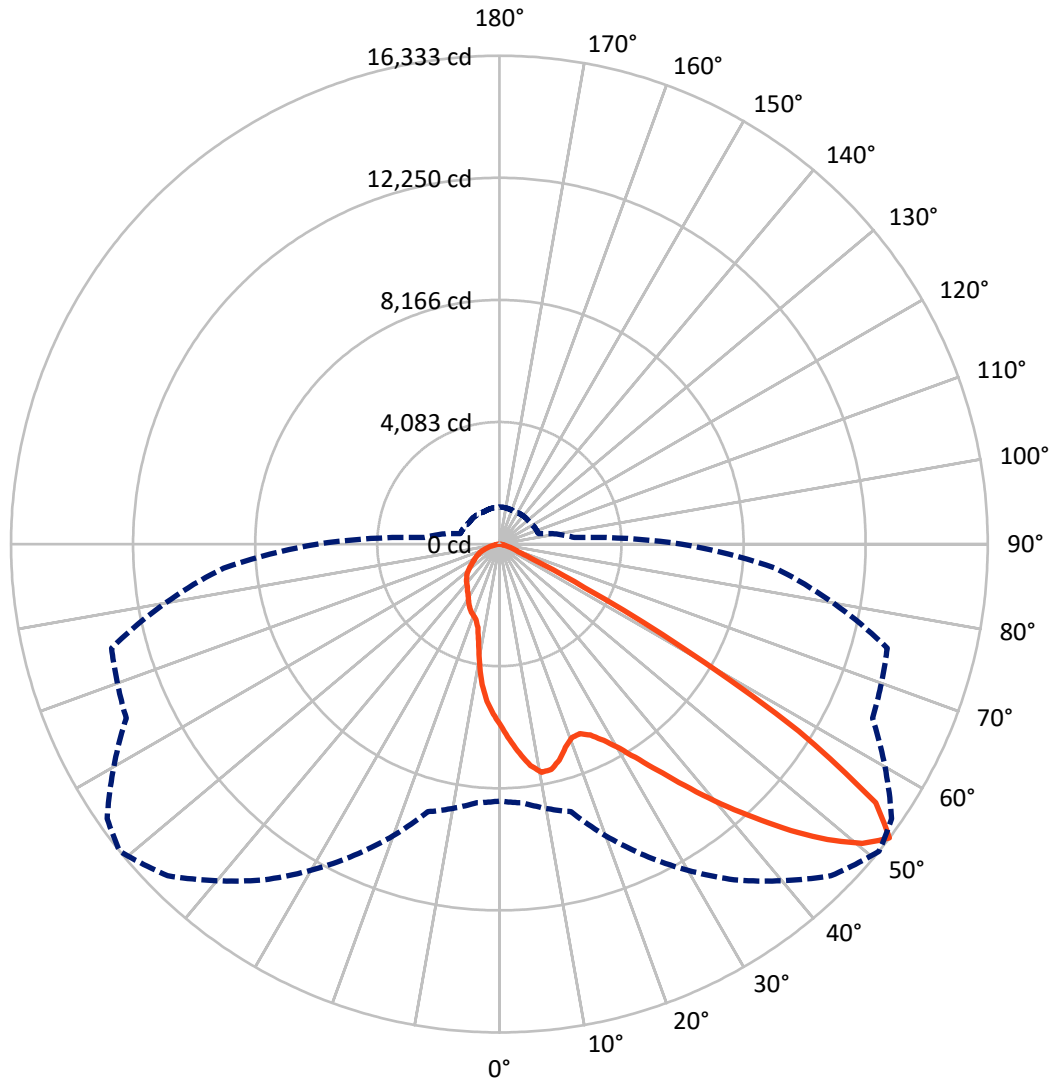
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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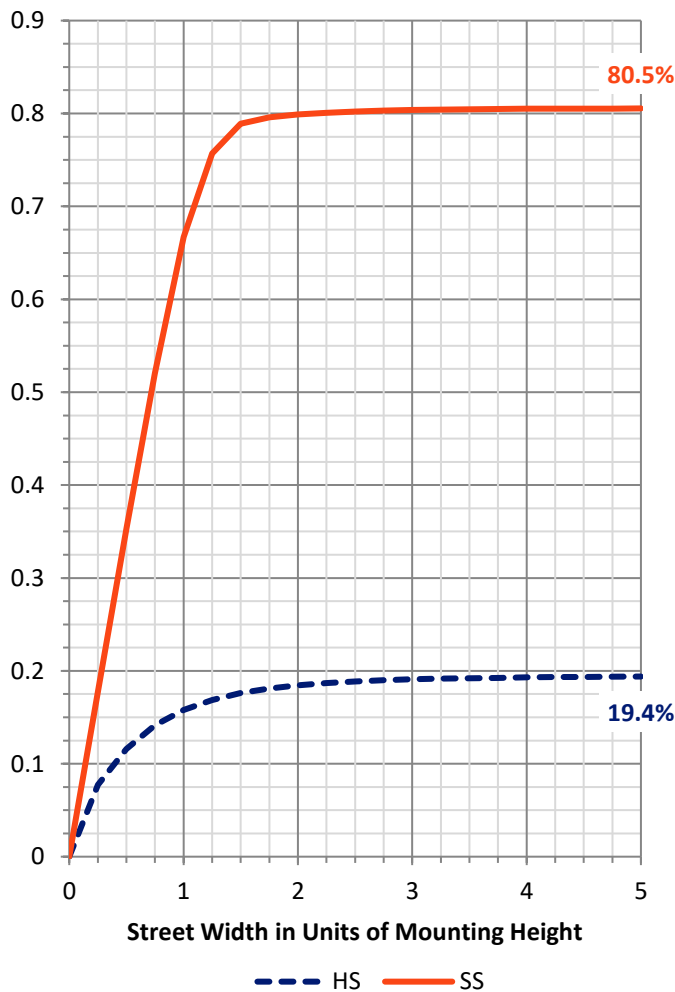
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3976.3	0.0	3976.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16431.6	0.0	16431.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	20407.9	0.0	20407.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.0	2.8
10°-20°	1473.3	7.2
20°-30°	2395.5	11.7
30°-40°	3796.4	18.6
40°-50°	5725.7	28.1
50°-60°	4953.2	24.3
60°-70°	1122.9	5.5
70°-80°	331.1	1.6
80°-90°	42.7	0.2
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°	20407.9	100.0
0°-180°	20407.9	100.0

Coefficient of Utilization



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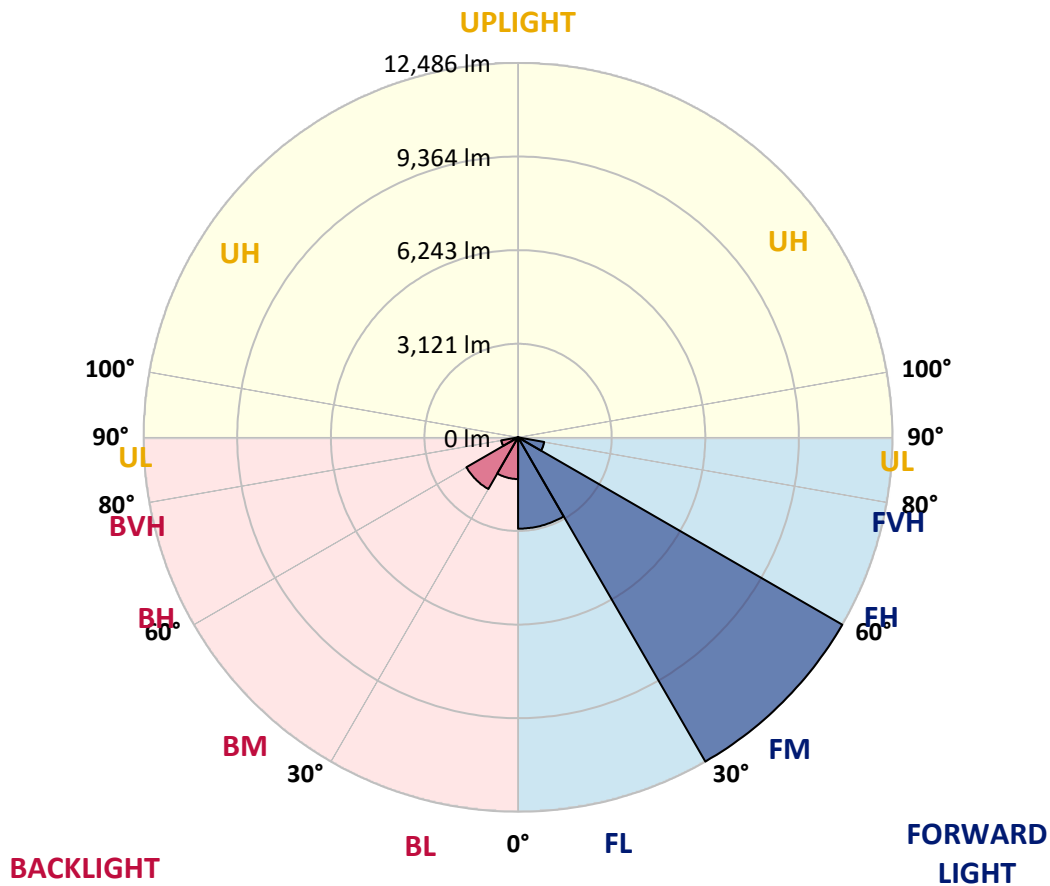
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3045.9	14.9			
FM (30°-60°)	12485.9	61.2			
FH (60°-80°)	883.7	4.3			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1389.9	6.8	B3/2500		
BM (30°-60°)	1989.5	9.7	B2/2500		
BH (60°-80°)	570.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.6	0.1			G1/100
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°	45°	51°	55°	65°	75°	85°
0°	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5
2.5°	6771.5	6810.2	6750.5	6728.0	6690.9	6626.4	6552.2	6531.2	6371.6	6266.7	6149.0
5°	7452.0	7473.0	7424.6	7376.2	7284.3	7169.8	7026.3	6995.7	6705.4	6465.1	6215.1
7.5°	7603.6	7595.6	7637.5	7664.9	7653.6	7608.5	7481.1	7421.4	7074.7	6694.1	6324.8
10°	7003.7	6958.6	7113.4	7297.2	7518.2	7773.0	7758.4	7753.6	7452.0	7002.1	6465.1
12.5°	6208.7	6186.1	6311.9	6542.5	6960.2	7524.6	7735.9	7900.4	7792.3	7295.6	6621.5
15°	5753.9	5745.9	5831.3	5997.4	6329.6	7042.4	7494.0	7819.7	8084.2	7610.1	6787.6
17.5°	5671.7	5676.5	5705.5	5800.7	6039.4	6626.4	7148.9	7603.6	8311.6	7955.2	6995.7
20°	5912.0	5944.2	5894.2	5908.7	6037.7	6476.4	6913.4	7385.9	8456.7	8301.9	7219.8
22.5°	6445.7	6434.5	6324.8	6260.3	6261.9	6568.3	6887.6	7284.3	8551.9	8638.9	7423.0
25°	7050.5	7037.6	6907.0	6763.4	6673.1	6818.3	7073.1	7392.4	8637.3	8947.0	7585.9
27.5°	7764.9	7724.6	7579.4	7395.6	7195.6	7258.5	7431.1	7684.3	8769.6	9250.1	7693.9
30°	8456.7	8503.5	8295.5	8077.7	7866.5	7827.8	7927.8	8156.8	9038.9	9604.9	7822.9
32.5°	9374.3	9358.2	9127.6	8843.8	8542.2	8513.2	8592.2	8801.8	9522.7	10095.2	8019.7
35°	10485.4	10488.6	10161.3	9777.5	9348.5	9271.1	9403.3	9606.5	10243.5	10759.6	8330.9
37.5°	11640.1	11635.2	11349.8	10914.4	10329.0	10219.3	10370.9	10522.5	11145.0	11664.3	8814.7
40°	12449.6	12481.9	12348.0	12119.0	11564.3	11296.6	11430.4	11535.3	12125.5	12728.6	9451.7
42.5°	12909.2	12957.6	12986.6	13123.7	12831.8	12546.4	12498.0	12552.8	13001.2	13717.2	10050.0
45°	13007.6	13072.1	13283.4	13791.3	13904.2	13823.6	13665.6	13533.3	13654.3	14418.7	10441.9
47.5°	12573.8	12686.7	13138.2	14026.8	14686.4	14939.6	14763.8	14562.2	14031.6	14599.3	10401.6
50°	10854.7	10987.0	12004.5	13546.2	14797.6	15720.1	15736.2	15437.9	13986.5	14078.4	9895.2
52.5°	8593.8	8684.1	9266.3	11483.7	13705.9	15687.8	16332.9	16013.6	13768.8	13426.9	9261.4
55°	5136.3	5281.4	5824.9	7576.2	10677.3	13904.2	15278.2	15433.0	13662.3	12880.2	8829.2
57.5°	1733.6	1804.6	2323.8	3346.2	6292.5	10180.6	11804.6	12433.5	12402.9	12044.9	7985.8
60°	825.7	841.8	946.6	1269.2	2519.0	5320.1	6987.6	7713.3	8374.5	8440.6	4968.6
62.5°	628.9	638.6	691.8	761.2	1012.7	2241.6	3202.7	3757.5	4013.9	3444.6	1809.4
65°	525.7	533.8	574.1	617.6	688.6	970.8	1228.8	1417.5	1277.2	995.0	862.8
67.5°	438.6	445.1	475.7	522.5	570.9	649.9	682.1	701.5	735.4	825.7	793.4
70°	343.5	349.9	382.2	422.5	469.3	488.6	519.3	538.6	606.4	722.5	719.2
72.5°	264.5	272.5	290.3	316.1	354.8	374.1	408.0	430.6	469.3	562.8	601.5
75°	193.5	198.4	214.5	222.5	227.4	222.5	256.4	282.2	333.8	369.3	379.0
77.5°	79.0	88.7	85.5	85.5	101.6	122.6	140.3	156.4	191.9	212.9	214.5
80°	32.3	35.5	41.9	46.8	56.4	72.6	83.9	90.3	106.4	119.3	129.0
82.5°	19.4	21.0	24.2	25.8	32.3	41.9	48.4	53.2	66.1	79.0	83.9
85°	9.7	9.7	11.3	12.9	16.1	19.4	22.6	25.8	33.9	41.9	46.8
87.5°	1.6	1.6	1.6	3.2	4.8	6.5	8.1	9.7	11.3	12.9	16.1
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°	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5	6076.5
2.5°	6079.7	5992.6	5891.0	5810.4	5716.8	5647.5	5549.1	5487.8	5429.8	5381.4	5345.9
5°	6086.1	5939.4	5728.1	5541.1	5347.5	5163.7	4975.0	4821.8	4684.7	4570.2	4560.6
7.5°	6123.2	5912.0	5581.4	5254.0	4876.6	4512.2	4147.7	3851.0	3625.2	3507.5	3483.3
10°	6186.1	5908.7	5431.4	4908.9	4265.4	3678.4	3246.3	3020.5	2889.9	2843.1	2827.0
12.5°	6252.2	5900.7	5239.5	4421.9	3528.5	3014.0	2777.0	2749.6	2773.8	2777.0	2775.4
15°	6332.9	5895.8	4997.6	3851.0	2989.8	2706.0	2722.1	2780.2	2836.6	2849.5	2849.5
17.5°	6431.2	5884.5	4668.6	3293.0	2652.8	2646.4	2731.8	2809.2	2862.4	2872.1	2872.1
20°	6534.4	5855.5	4263.8	2838.3	2515.7	2609.3	2701.2	2760.8	2797.9	2810.8	2812.5
22.5°	6605.4	5778.1	3797.8	2501.2	2430.3	2538.3	2604.4	2665.7	2665.7	2633.5	2623.8
25°	6619.9	5612.0	3293.0	2270.6	2328.7	2428.6	2496.4	2460.9	2394.8	2369.0	2367.4
27.5°	6566.7	5370.1	2794.7	2106.1	2206.1	2306.1	2294.8	2243.2	2214.2	2188.4	2198.0
30°	6502.2	5079.8	2362.5	1970.7	2064.2	2162.6	2123.9	2106.1	2085.2	2056.1	2062.6
32.5°	6458.6	4755.7	2030.3	1865.8	1969.0	1985.2	2012.6	2011.0	1991.6	1936.8	1933.6
35°	6471.5	4428.3	1807.8	1780.4	1890.0	1883.6	1935.2	1925.5	1791.6	1715.9	1711.0
37.5°	6574.8	4113.9	1677.2	1712.6	1764.2	1804.6	1849.7	1733.6	1686.8	1638.4	1641.7
40°	6771.5	3822.0	1606.2	1675.5	1688.4	1748.1	1643.3	1641.7	1620.7	1577.2	1575.6
42.5°	6994.0	3575.2	1557.8	1657.8	1640.1	1651.3	1540.1	1553.0	1551.4	1524.0	1515.9
45°	7129.5	3347.9	1519.1	1591.7	1596.5	1483.6	1449.8	1464.3	1472.3	1457.8	1456.2
47.5°	6989.2	3086.6	1478.8	1490.1	1532.0	1407.8	1365.9	1367.5	1382.0	1383.7	1377.2
50°	6595.7	2794.7	1430.4	1403.0	1375.6	1328.8	1290.1	1282.1	1296.6	1311.1	1315.9
52.5°	6087.7	2515.7	1349.8	1307.9	1243.4	1243.4	1225.6	1199.8	1219.2	1238.5	1245.0
55°	5715.2	2309.3	1235.3	1188.5	1117.6	1141.8	1138.5	1116.0	1141.8	1156.3	1161.1
57.5°	4952.4	1856.2	1086.9	1072.4	1012.7	1041.8	1048.2	1019.2	1006.3	1009.5	1014.4
60°	2939.9	1198.2	980.5	978.9	925.7	959.5	978.9	949.8	911.1	916.0	922.4
62.5°	1319.1	916.0	846.6	840.2	838.6	882.1	903.1	875.7	820.8	825.7	832.1
65°	830.5	791.8	735.4	735.4	761.2	798.3	814.4	791.8	728.9	720.9	727.3
67.5°	770.8	737.0	678.9	667.6	680.5	711.2	712.8	669.2	632.2	625.7	625.7
70°	691.8	666.0	609.6	587.0	582.2	580.6	575.7	564.4	540.2	533.8	537.0
72.5°	572.5	554.8	519.3	495.1	482.2	480.6	461.2	451.5	430.6	427.4	425.7
75°	379.0	383.8	383.8	380.6	369.3	364.5	343.5	333.8	309.6	300.0	298.3
77.5°	224.2	229.0	235.4	237.1	235.4	235.4	216.1	204.8	180.6	167.7	164.5
80°	137.1	140.3	143.5	148.4	141.9	137.1	119.3	108.0	96.8	88.7	87.1
82.5°	88.7	91.9	93.5	96.8	93.5	87.1	72.6	66.1	58.1	51.6	50.0
85°	50.0	51.6	54.8	54.8	50.0	45.2	37.1	32.3	27.4	24.2	24.2
87.5°	17.7	17.7	17.7	19.4	16.1	14.5	9.7	6.5	4.8	4.8	4.8
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)