

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: P640718

Luminaire Tested: GWS-SA5E-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640718
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-SA5E-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34056.9 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

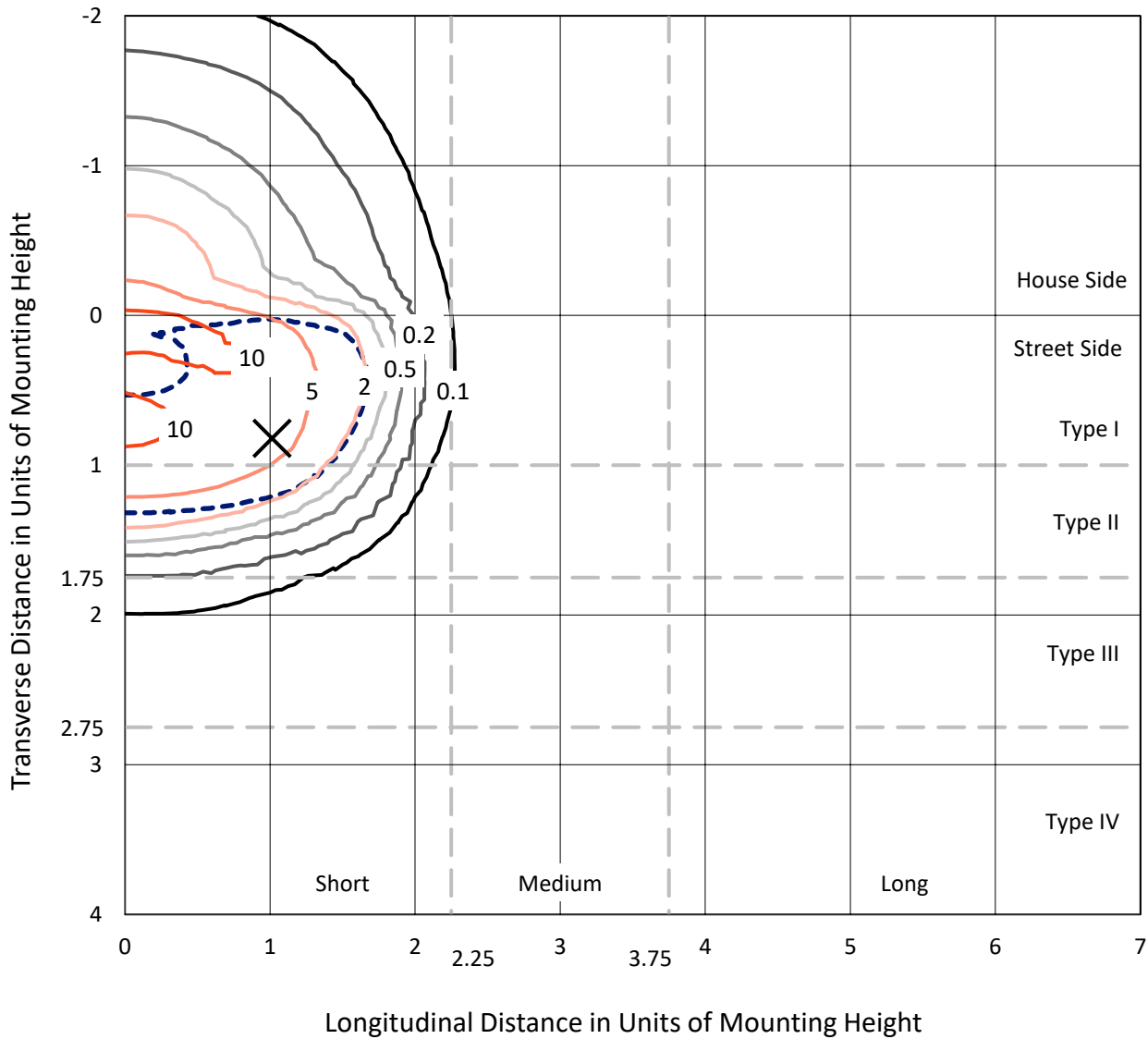
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640718
 CATALOG NUMBER: GWS-SA5E-740-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

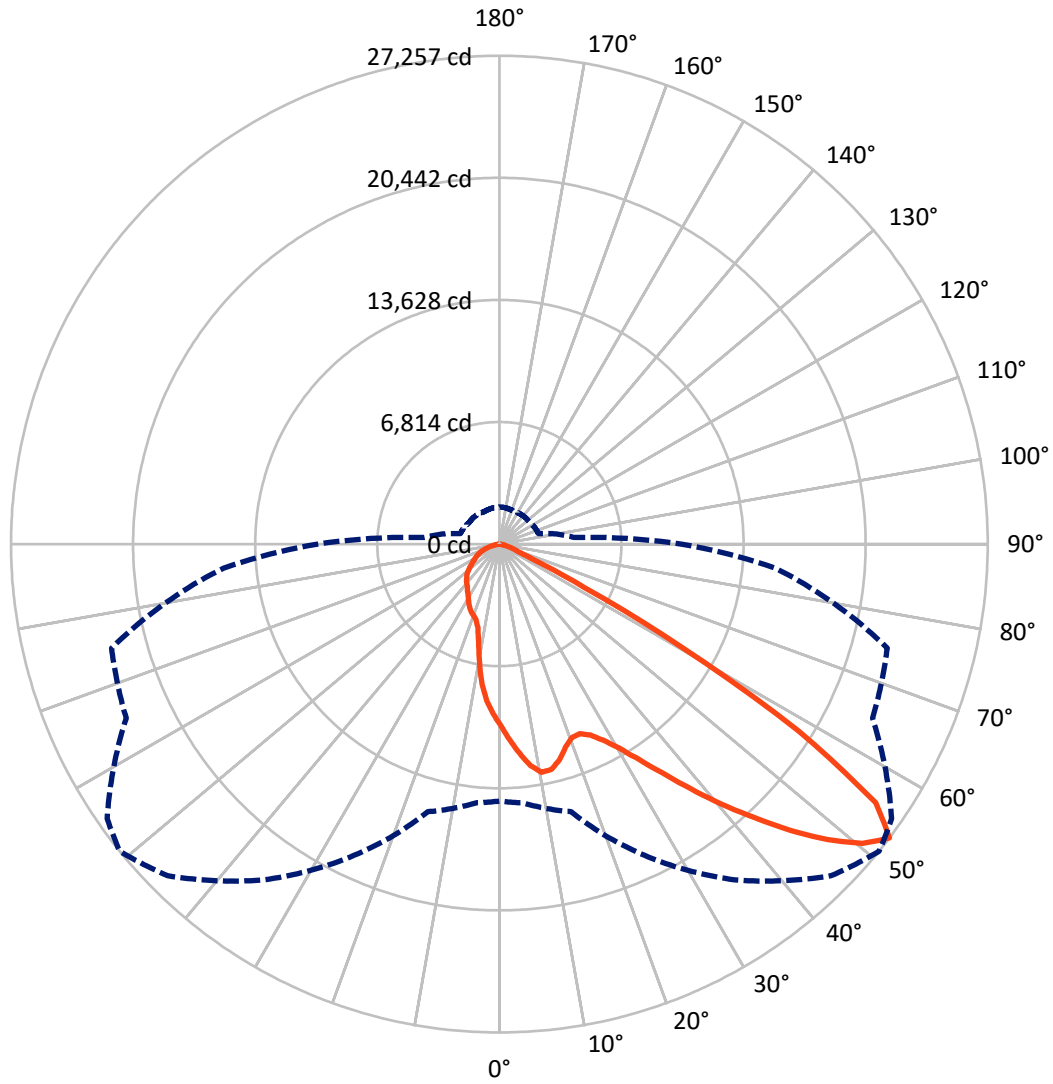
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

REPORT NUMBER: P640718
CATALOG NUMBER: GWS-SA5E-740-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640718

CATALOG NUMBER: GWS-SA5E-740-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6635.7	0.0	6635.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	27421.2	0.0	27421.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	34056.9	0.0	34056.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.2	2.8
10°-20°	2458.7	7.2
20°-30°	3997.7	11.7
30°-40°	6335.4	18.6
40°-50°	9555.2	28.1
50°-60°	8266.0	24.3
60°-70°	1874.0	5.5
70°-80°	552.6	1.6
80°-90°	71.2	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°	34056.9	100.0
0°-180°	34056.9	100.0

Coefficient of Utilization



REPORT NUMBER: P640718

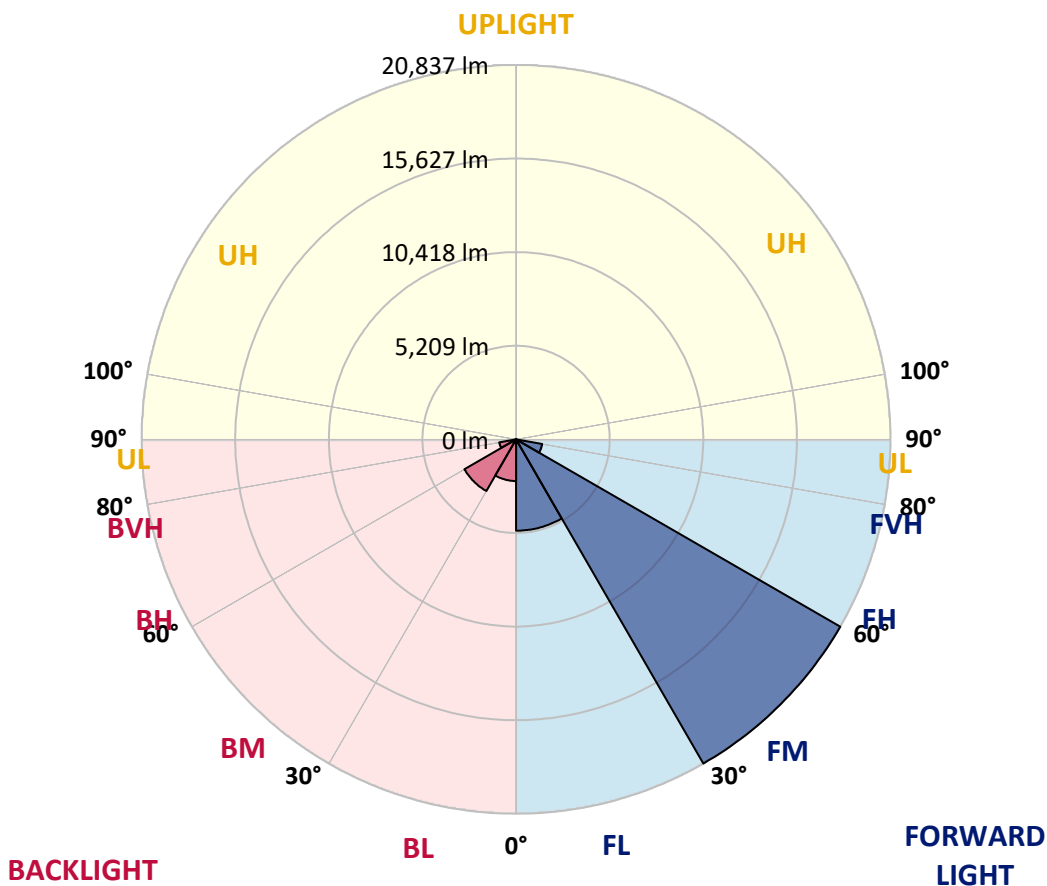
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5083.1	14.9			
FM (30°-60°)	20836.5	61.2			
FH (60°-80°)	1474.8	4.3			G1/1800
FVH (80°-90°)	26.8	0.1			G1/100
BL (0°-30°)	2319.6	6.8	B3/2500		
BM (30°-60°)	3320.1	9.7	B3/5000		
BH (60°-80°)	951.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	44.4	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





REPORT NUMBER: P640718

CATALOG NUMBER: GWS-SA5E-740-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4
2.5°	11300.3	11364.9	11265.4	11227.7	11165.8	11058.1	10934.3	10899.4	10632.9	10458.0	10261.5
5°	12436.0	12471.0	12390.3	12309.5	12156.1	11965.1	11725.6	11674.4	11190.0	10789.0	10371.9
7.5°	12689.0	12675.5	12745.5	12791.3	12772.4	12697.1	12484.5	12384.9	11806.3	11171.2	10554.9
10°	11687.9	11612.5	11870.9	12177.7	12546.4	12971.6	12947.4	12939.3	12436.0	11685.2	10789.0
12.5°	10361.1	10323.4	10533.4	10918.2	11615.2	12557.1	12909.7	13184.2	13003.9	12175.0	11050.1
15°	9602.2	9588.7	9731.4	10008.6	10563.0	11752.5	12506.0	13049.6	13491.0	12699.8	11327.3
17.5°	9464.9	9473.0	9521.5	9680.2	10078.5	11058.1	11930.1	12689.0	13870.4	13275.7	11674.4
20°	9865.9	9919.8	9836.3	9860.6	10075.8	10807.9	11537.2	12325.7	14112.6	13854.3	12048.5
22.5°	10756.7	10737.9	10554.9	10447.2	10449.9	10961.3	11494.1	12156.1	14271.4	14416.8	12387.6
25°	11765.9	11744.4	11526.4	11286.9	11136.2	11378.4	11803.6	12336.5	14414.1	14930.8	12659.4
27.5°	12958.1	12890.8	12648.6	12341.8	12008.1	12113.1	12401.0	12823.6	14634.7	15436.7	12839.7
30°	14112.6	14190.7	13843.5	13480.2	13127.7	13063.1	13229.9	13612.1	15084.2	16028.8	13055.0
32.5°	15643.9	15617.0	15232.2	14758.5	14255.3	14206.8	14338.7	14688.6	15891.5	16846.9	13383.3
35°	17498.2	17503.6	16957.2	16316.7	15600.9	15471.7	15692.4	16031.5	17094.5	17955.7	13902.7
37.5°	19425.1	19417.0	18940.7	18214.0	17237.1	17054.1	17307.1	17560.1	18598.9	19465.4	14710.1
40°	20776.1	20829.9	20606.5	20224.4	19298.6	18851.8	19075.2	19250.1	20235.1	21241.6	15773.1
42.5°	21543.0	21623.8	21672.2	21901.0	21413.9	20937.5	20856.8	20948.3	21696.4	22891.3	16771.6
45°	21707.2	21814.9	22167.4	23015.1	23203.5	23069.0	22805.2	22584.5	22786.4	24062.0	17425.5
47.5°	20983.3	21171.7	21925.2	23408.0	24508.8	24931.3	24637.9	24301.5	23416.1	24363.4	17358.2
50°	18114.5	18335.1	20033.3	22606.1	24694.4	26233.8	26260.7	25762.8	23340.8	23494.2	16513.2
52.5°	14341.4	14492.1	15463.6	19164.0	22872.5	26180.0	27256.5	26723.6	22977.5	22406.9	15455.6
55°	8571.5	8813.7	9720.6	12643.3	17818.4	23203.5	25496.4	25754.8	22799.8	21494.6	14734.3
57.5°	2893.0	3011.5	3878.0	5584.2	10501.1	16989.5	19699.6	20749.1	20698.0	20100.6	13326.8
60°	1377.9	1404.8	1579.7	2118.0	4203.7	8878.3	11661.0	12872.0	13975.4	14085.7	8291.6
62.5°	1049.6	1065.7	1154.5	1270.2	1690.1	3740.8	5344.7	6270.5	6698.4	5748.4	3019.5
65°	877.3	890.8	958.1	1030.7	1149.1	1620.1	2050.7	2365.6	2131.4	1660.5	1439.8
67.5°	732.0	742.8	793.9	871.9	952.7	1084.6	1138.4	1170.7	1227.2	1377.9	1324.1
70°	573.2	584.0	637.8	705.1	783.1	815.4	866.6	898.9	1011.9	1205.7	1200.3
72.5°	441.4	454.8	484.4	527.5	592.1	624.4	680.9	718.6	783.1	939.2	1003.8
75°	322.9	331.0	357.9	371.4	379.5	371.4	427.9	471.0	557.1	616.3	632.4
77.5°	131.9	148.0	142.6	142.6	169.5	204.5	234.1	261.0	320.3	355.2	357.9
80°	53.8	59.2	70.0	78.0	94.2	121.1	139.9	150.7	177.6	199.1	215.3
82.5°	32.3	35.0	40.4	43.1	53.8	70.0	80.7	88.8	110.3	131.9	139.9
85°	16.1	16.1	18.8	21.5	26.9	32.3	37.7	43.1	56.5	70.0	78.0
87.5°	2.7	2.7	2.7	5.4	8.1	10.8	13.5	16.1	18.8	21.5	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640718

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4	10140.4
2.5°	10145.8	10000.5	9831.0	9696.4	9540.3	9424.6	9260.4	9158.2	9061.3	8980.5	8921.3
5°	10156.6	9911.7	9559.1	9247.0	8924.0	8617.2	8302.3	8046.7	7817.9	7626.9	7610.7
7.5°	10218.5	9865.9	9314.2	8767.9	8138.2	7530.0	6921.8	6426.6	6049.8	5853.4	5813.0
10°	10323.4	9860.6	9064.0	8192.0	7118.2	6138.6	5417.4	5040.6	4822.6	4744.6	4717.7
12.5°	10433.8	9847.1	8743.7	7379.3	5888.3	5029.9	4634.2	4588.5	4628.9	4634.2	4631.6
15°	10568.3	9839.0	8340.0	6426.6	4989.5	4515.8	4542.7	4639.6	4733.8	4755.3	4755.3
17.5°	10732.5	9820.2	7791.0	5495.4	4427.0	4416.3	4558.9	4688.1	4776.9	4793.0	4793.0
20°	10904.7	9771.7	7115.5	4736.5	4198.3	4354.4	4507.8	4607.3	4669.2	4690.8	4693.5
22.5°	11023.2	9642.6	6337.8	4174.0	4055.6	4235.9	4346.3	4448.6	4448.6	4394.7	4378.6
25°	11047.4	9365.4	5495.4	3789.2	3886.1	4052.9	4166.0	4106.8	3996.4	3953.4	3950.7
27.5°	10958.6	8961.7	4663.8	3514.7	3681.6	3848.4	3829.6	3743.5	3695.0	3652.0	3668.1
30°	10850.9	8477.3	3942.6	3288.6	3444.7	3608.9	3544.3	3514.7	3479.7	3431.3	3442.0
32.5°	10778.3	7936.3	3388.2	3113.7	3286.0	3312.9	3358.6	3355.9	3323.6	3232.1	3226.7
35°	10799.8	7390.0	3016.8	2971.1	3154.1	3143.3	3229.4	3213.3	2989.9	2863.4	2855.4
37.5°	10972.0	6865.2	2798.8	2858.1	2944.2	3011.5	3086.8	2893.0	2815.0	2734.3	2739.6
40°	11300.3	6378.1	2680.4	2796.2	2817.7	2917.3	2742.3	2739.6	2704.7	2632.0	2629.3
42.5°	11671.7	5966.4	2599.7	2766.6	2736.9	2755.8	2570.1	2591.6	2588.9	2543.2	2529.7
45°	11897.8	5586.9	2535.1	2656.2	2664.3	2475.9	2419.4	2443.6	2457.1	2432.8	2430.2
47.5°	11663.7	5151.0	2467.8	2486.7	2556.6	2349.4	2279.4	2282.1	2306.4	2309.0	2298.3
50°	11007.0	4663.8	2387.1	2341.3	2295.6	2217.5	2153.0	2139.5	2163.7	2187.9	2196.0
52.5°	10159.3	4198.3	2252.5	2182.6	2074.9	2074.9	2045.3	2002.3	2034.5	2066.8	2077.6
55°	9537.6	3853.8	2061.5	1983.4	1865.0	1905.4	1900.0	1862.3	1905.4	1929.6	1937.7
57.5°	8264.7	3097.6	1813.9	1789.6	1690.1	1738.5	1749.3	1700.8	1679.3	1684.7	1692.8
60°	4906.1	1999.6	1636.2	1633.6	1544.7	1601.3	1633.6	1585.1	1520.5	1528.6	1539.4
62.5°	2201.4	1528.6	1412.9	1402.1	1399.4	1472.1	1507.1	1461.3	1369.8	1377.9	1388.7
65°	1386.0	1321.4	1227.2	1227.2	1270.2	1332.1	1359.1	1321.4	1216.4	1203.0	1213.7
67.5°	1286.4	1229.9	1133.0	1114.2	1135.7	1186.8	1189.5	1116.8	1055.0	1044.2	1044.2
70°	1154.5	1111.5	1017.3	979.6	971.5	968.8	960.8	941.9	901.6	890.8	896.2
72.5°	955.4	925.8	866.6	826.2	804.7	802.0	769.7	753.5	718.6	713.2	710.5
75°	632.4	640.5	640.5	635.1	616.3	608.2	573.2	557.1	516.7	500.6	497.9
77.5°	374.1	382.2	392.9	395.6	392.9	392.9	360.6	341.8	301.4	279.9	274.5
80°	228.8	234.1	239.5	247.6	236.8	228.8	199.1	180.3	161.5	148.0	145.3
82.5°	148.0	153.4	156.1	161.5	156.1	145.3	121.1	110.3	96.9	86.1	83.4
85°	83.4	86.1	91.5	91.5	83.4	75.4	61.9	53.8	45.8	40.4	40.4
87.5°	29.6	29.6	29.6	32.3	26.9	24.2	16.1	10.8	8.1	8.1	8.1
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)