

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: P640773

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640773
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34837.3 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

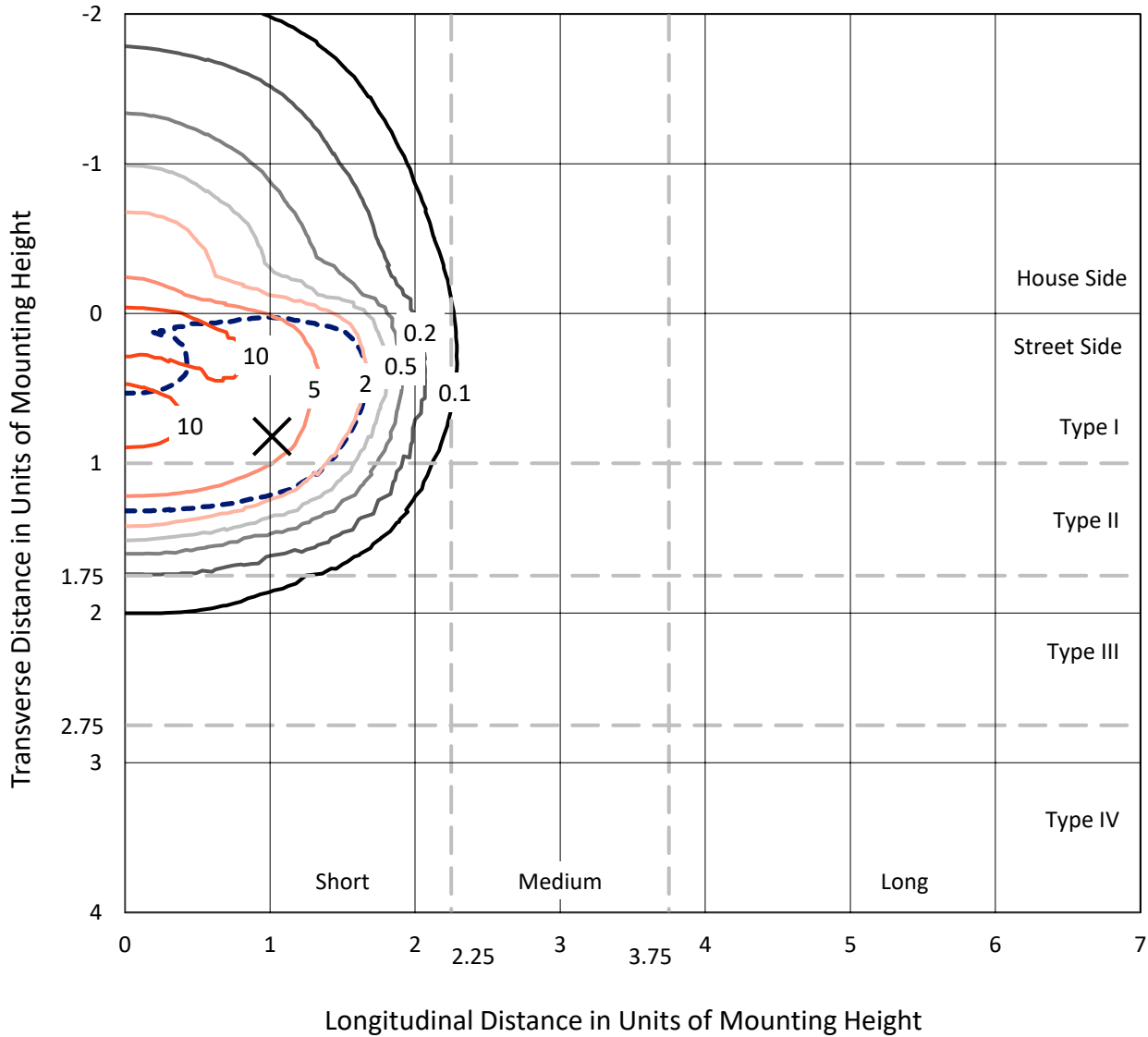
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

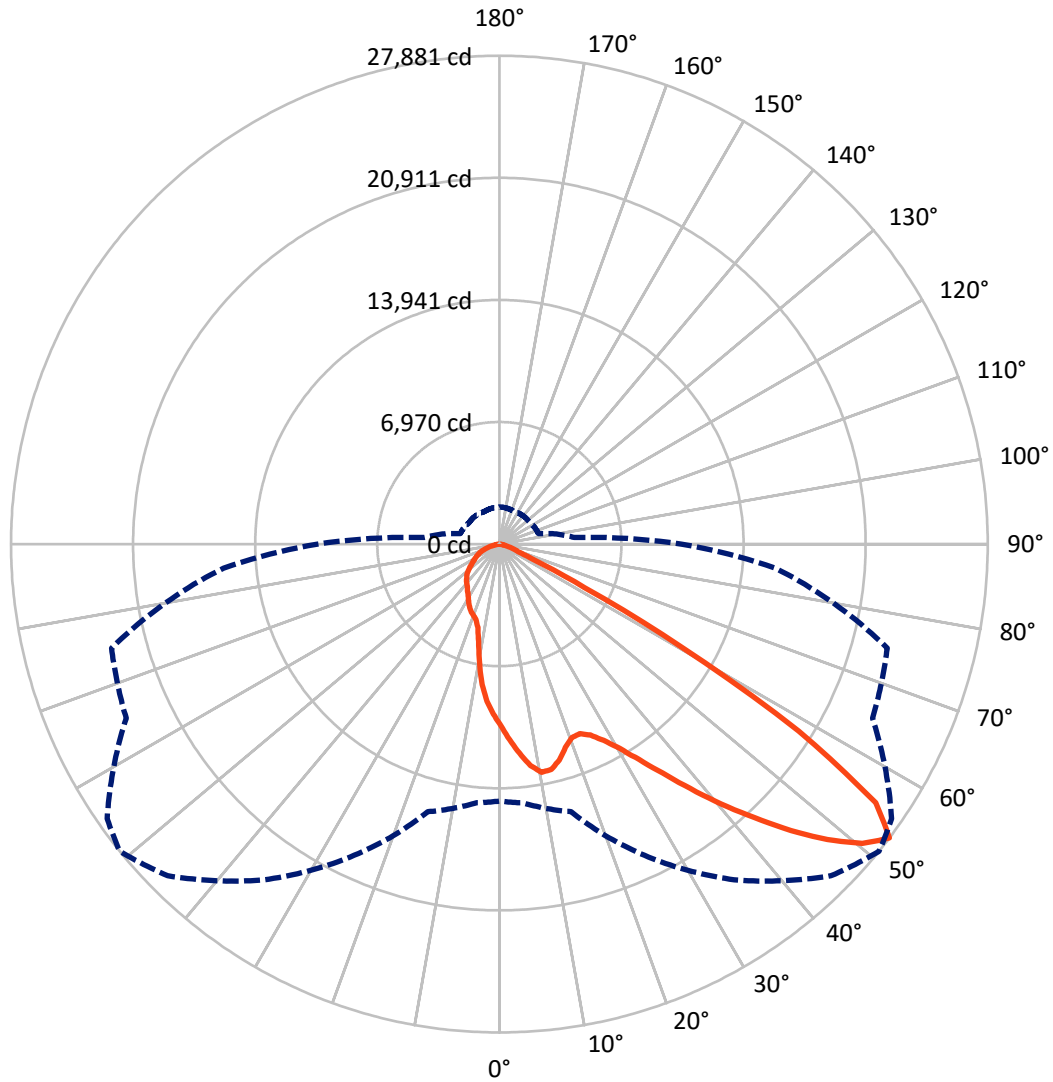
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.1 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	6787.8	0.0	6787.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	28049.5	0.0	28049.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	34837.3	0.0	34837.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.9	2.8
10°-20°	2515.1	7.2
20°-30°	4089.3	11.7
30°-40°	6480.6	18.6
40°-50°	9774.1	28.1
50°-60°	8455.4	24.3
60°-70°	1916.9	5.5
70°-80°	565.2	1.6
80°-90°	72.8	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°	34837.3	100.0
0°-180°	34837.3	100.0

Coefficient of Utilization



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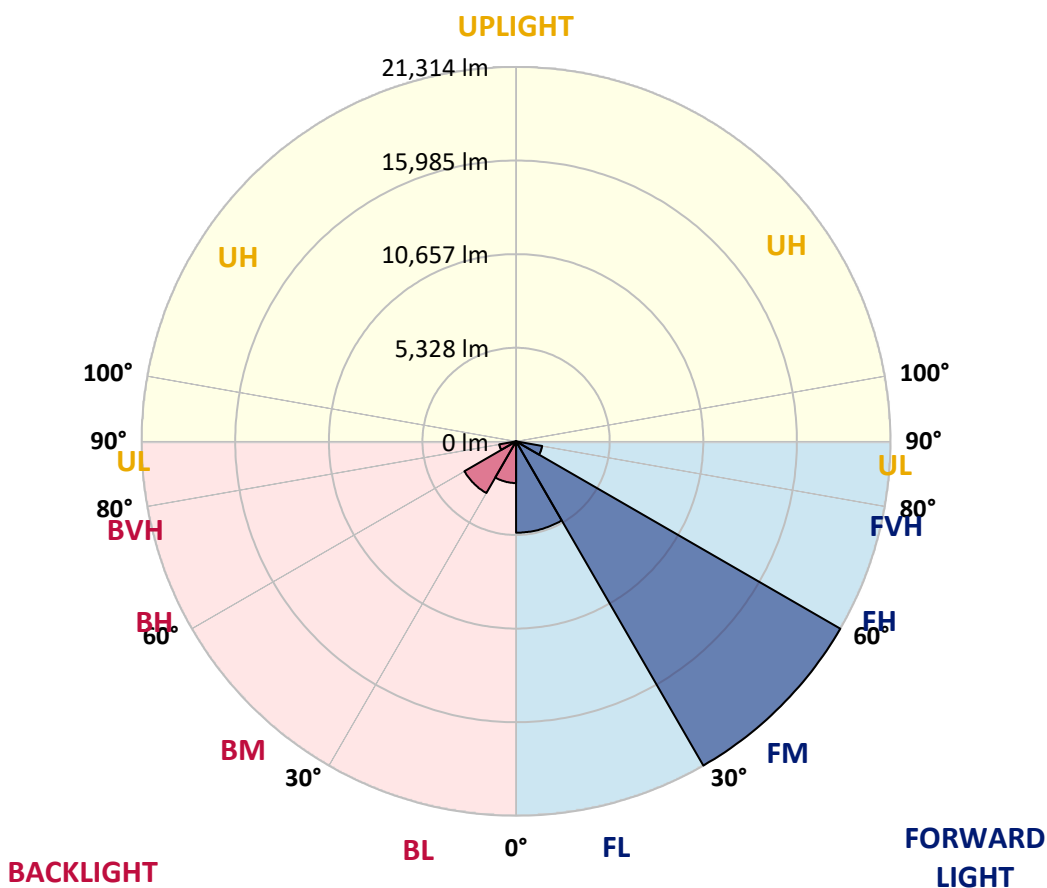
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5199.5	14.9			
FM (30°-60°)	21314.0	61.2			
FH (60°-80°)	1508.6	4.3			G1/1800
FVH (80°-90°)	27.4	0.1			G1/100
BL (0°-30°)	2372.7	6.8	B3/2500		
BM (30°-60°)	3396.1	9.7	B3/5000		
BH (60°-80°)	973.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	45.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8
2.5°	11559.3	11625.4	11523.5	11485.0	11421.6	11311.5	11184.9	11149.1	10876.6	10697.6	10496.7
5°	12721.0	12756.8	12674.2	12591.6	12434.7	12239.2	11994.2	11941.9	11446.4	11036.2	10609.5
7.5°	12979.8	12966.0	13037.6	13084.4	13065.1	12988.0	12770.5	12668.7	12076.8	11427.2	10796.7
10°	11955.7	11878.6	12142.9	12456.7	12833.9	13268.8	13244.0	13235.8	12721.0	11952.9	11036.2
12.5°	10598.5	10560.0	10774.7	11168.4	11881.4	12844.9	13205.5	13486.3	13301.9	12454.0	11303.3
15°	9822.2	9808.5	9954.4	10237.9	10805.0	12021.8	12792.6	13348.7	13800.1	12990.8	11586.8
17.5°	9681.8	9690.1	9739.6	9902.1	10309.5	11311.5	12203.5	12979.8	14188.3	13579.9	11941.9
20°	10092.0	10147.1	10061.7	10086.5	10306.7	11055.5	11801.5	12608.1	14436.0	14171.8	12324.6
22.5°	11003.2	10983.9	10796.7	10686.6	10689.4	11212.4	11757.5	12434.7	14598.5	14747.1	12671.4
25°	12035.5	12013.5	11790.5	11545.5	11391.4	11639.1	12074.1	12619.1	14744.4	15272.9	12949.5
27.5°	13255.1	13186.2	12938.5	12624.6	12283.3	12390.7	12685.2	13117.4	14970.1	15790.4	13133.9
30°	14436.0	14515.9	14160.7	13789.1	13428.5	13362.4	13533.1	13924.0	15429.8	16396.1	13354.2
32.5°	16002.4	15974.9	15581.2	15096.7	14581.9	14532.4	14667.3	15025.1	16255.7	17232.9	13690.0
35°	17899.1	17904.6	17345.8	16690.6	15958.4	15826.2	16052.0	16398.8	17486.2	18367.1	14221.3
37.5°	19870.2	19861.9	19374.7	18631.4	17632.1	17444.9	17703.7	17962.5	19025.1	19911.5	15047.2
40°	21252.1	21307.2	21078.7	20687.8	19740.8	19283.8	19512.3	19691.3	20698.8	21728.4	16134.6
42.5°	22036.7	22119.3	22168.8	22402.8	21904.6	21417.3	21334.7	21428.3	22193.6	23415.9	17155.9
45°	22204.6	22314.7	22675.4	23542.5	23735.2	23597.6	23327.8	23102.1	23308.5	24613.4	17824.8
47.5°	21464.1	21656.8	22427.6	23944.4	25070.4	25502.6	25202.5	24858.4	23952.7	24921.7	17756.0
50°	18529.5	18755.3	20492.3	23124.1	25260.3	26834.9	26862.5	26353.2	23875.6	24032.5	16891.6
52.5°	14670.0	14824.2	15818.0	19603.2	23396.6	26779.9	27881.0	27336.0	23504.0	22920.4	15809.7
55°	8767.9	9015.6	9943.4	12933.0	18226.7	23735.2	26080.7	26344.9	23322.3	21987.1	15071.9
57.5°	2959.3	3080.5	3966.9	5712.2	10741.7	17378.8	20151.0	21224.6	21172.3	20561.2	13632.2
60°	1409.5	1437.0	1615.9	2166.5	4300.0	9081.7	11928.2	13167.0	14295.6	14408.5	8481.6
62.5°	1073.6	1090.1	1181.0	1299.4	1728.8	3826.5	5467.2	6414.2	6851.9	5880.1	3088.7
65°	897.4	911.2	980.0	1054.3	1175.5	1657.2	2097.7	2419.8	2180.3	1698.5	1472.8
67.5°	748.8	759.8	812.1	891.9	974.5	1109.4	1164.5	1197.5	1255.3	1409.5	1354.4
70°	586.4	597.4	652.4	721.3	801.1	834.1	886.4	919.5	1035.1	1233.3	1227.8
72.5°	451.5	465.2	495.5	539.6	605.6	638.7	696.5	735.0	801.1	960.8	1026.8
75°	330.3	338.6	366.1	379.9	388.2	379.9	437.7	481.8	569.8	630.4	646.9
77.5°	134.9	151.4	145.9	145.9	173.4	209.2	239.5	267.0	327.6	363.4	366.1
80°	55.1	60.6	71.6	79.8	96.4	123.9	143.1	154.2	181.7	203.7	220.2
82.5°	33.0	35.8	41.3	44.0	55.1	71.6	82.6	90.8	112.9	134.9	143.1
85°	16.5	16.5	19.3	22.0	27.5	33.0	38.5	44.0	57.8	71.6	79.8
87.5°	2.8	2.8	2.8	5.5	8.3	11.0	13.8	16.5	19.3	22.0	27.5
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°	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8	10372.8
2.5°	10378.3	10229.7	10056.2	9918.6	9758.9	9640.5	9472.6	9368.0	9268.9	9186.3	9125.8
5°	10389.3	10138.8	9778.2	9458.9	9128.5	8814.7	8492.6	8231.1	7997.1	7801.6	7785.1
7.5°	10452.6	10092.0	9527.7	8968.8	8324.7	7702.5	7080.4	6573.8	6188.4	5987.5	5946.2
10°	10560.0	10086.5	9271.7	8379.7	7281.3	6279.3	5541.5	5156.1	4933.1	4853.3	4825.8
12.5°	10672.9	10072.7	8944.1	7548.4	6023.3	5145.1	4740.4	4693.6	4734.9	4740.4	4737.7
15°	10810.5	10064.5	8531.1	6573.8	5103.8	4619.3	4646.8	4745.9	4842.3	4864.3	4864.3
17.5°	10978.4	10045.2	7969.5	5621.4	4528.5	4517.5	4663.4	4795.5	4886.3	4902.9	4902.9
20°	11154.6	9995.7	7278.6	4845.0	4294.5	4454.1	4611.1	4712.9	4776.2	4798.2	4801.0
22.5°	11275.7	9863.5	6483.0	4269.7	4148.6	4333.0	4445.9	4550.5	4550.5	4495.4	4478.9
25°	11300.5	9580.0	5621.4	3876.0	3975.1	4145.8	4261.4	4200.9	4088.0	4044.0	4041.2
27.5°	11209.7	9167.0	4770.7	3595.2	3765.9	3936.6	3917.3	3829.2	3779.7	3735.6	3752.2
30°	11099.6	8671.5	4032.9	3364.0	3523.7	3691.6	3625.5	3595.2	3559.5	3509.9	3520.9
32.5°	11025.2	8118.2	3465.9	3185.1	3361.3	3388.8	3435.6	3432.8	3399.8	3306.2	3300.7
35°	11047.3	7559.4	3086.0	3039.2	3226.4	3215.3	3303.4	3286.9	3058.4	2929.1	2920.8
37.5°	11223.4	7022.6	2863.0	2923.5	3011.6	3080.5	3157.5	2959.3	2879.5	2796.9	2802.4
40°	11559.3	6524.3	2741.9	2860.2	2882.3	2984.1	2805.2	2802.4	2766.6	2692.3	2689.6
42.5°	11939.2	6103.1	2659.3	2829.9	2799.7	2818.9	2629.0	2651.0	2648.3	2601.5	2587.7
45°	12170.4	5715.0	2593.2	2717.1	2725.3	2532.6	2474.8	2499.6	2513.4	2488.6	2485.8
47.5°	11930.9	5269.0	2524.4	2543.6	2615.2	2403.3	2331.7	2334.4	2359.2	2362.0	2350.9
50°	11259.2	4770.7	2441.8	2395.0	2348.2	2268.4	2202.3	2188.5	2213.3	2238.1	2246.3
52.5°	10392.1	4294.5	2304.1	2232.6	2122.5	2122.5	2092.2	2048.1	2081.2	2114.2	2125.2
55°	9756.2	3942.1	2108.7	2028.9	1907.7	1949.0	1943.5	1905.0	1949.0	1973.8	1982.1
57.5°	8454.1	3168.5	1855.4	1830.7	1728.8	1778.4	1789.4	1739.8	1717.8	1723.3	1731.6
60°	5018.5	2045.4	1673.7	1671.0	1580.1	1638.0	1671.0	1621.4	1555.4	1563.6	1574.6
62.5°	2251.8	1563.6	1445.3	1434.2	1431.5	1505.8	1541.6	1494.8	1401.2	1409.5	1420.5
65°	1417.7	1351.7	1255.3	1255.3	1299.4	1362.7	1390.2	1351.7	1244.3	1230.5	1241.5
67.5°	1315.9	1258.1	1159.0	1139.7	1161.7	1214.0	1216.8	1142.4	1079.1	1068.1	1068.1
70°	1181.0	1136.9	1040.6	1002.0	993.8	991.0	982.8	963.5	922.2	911.2	916.7
72.5°	977.3	947.0	886.4	845.1	823.1	820.4	787.3	770.8	735.0	729.5	726.8
75°	646.9	655.2	655.2	649.7	630.4	622.1	586.4	569.8	528.6	512.0	509.3
77.5°	382.6	390.9	401.9	404.7	401.9	401.9	368.9	349.6	308.3	286.3	280.8
80°	234.0	239.5	245.0	253.3	242.3	234.0	203.7	184.4	165.2	151.4	148.7
82.5°	151.4	156.9	159.7	165.2	159.7	148.7	123.9	112.9	99.1	88.1	85.3
85°	85.3	88.1	93.6	93.6	85.3	77.1	63.3	55.1	46.8	41.3	41.3
87.5°	30.3	30.3	30.3	33.0	27.5	24.8	16.5	11.0	8.3	8.3	8.3
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)