

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: P642698

Luminaire Tested: GWS-SA6D-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642698
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-SA6D-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32497.4 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

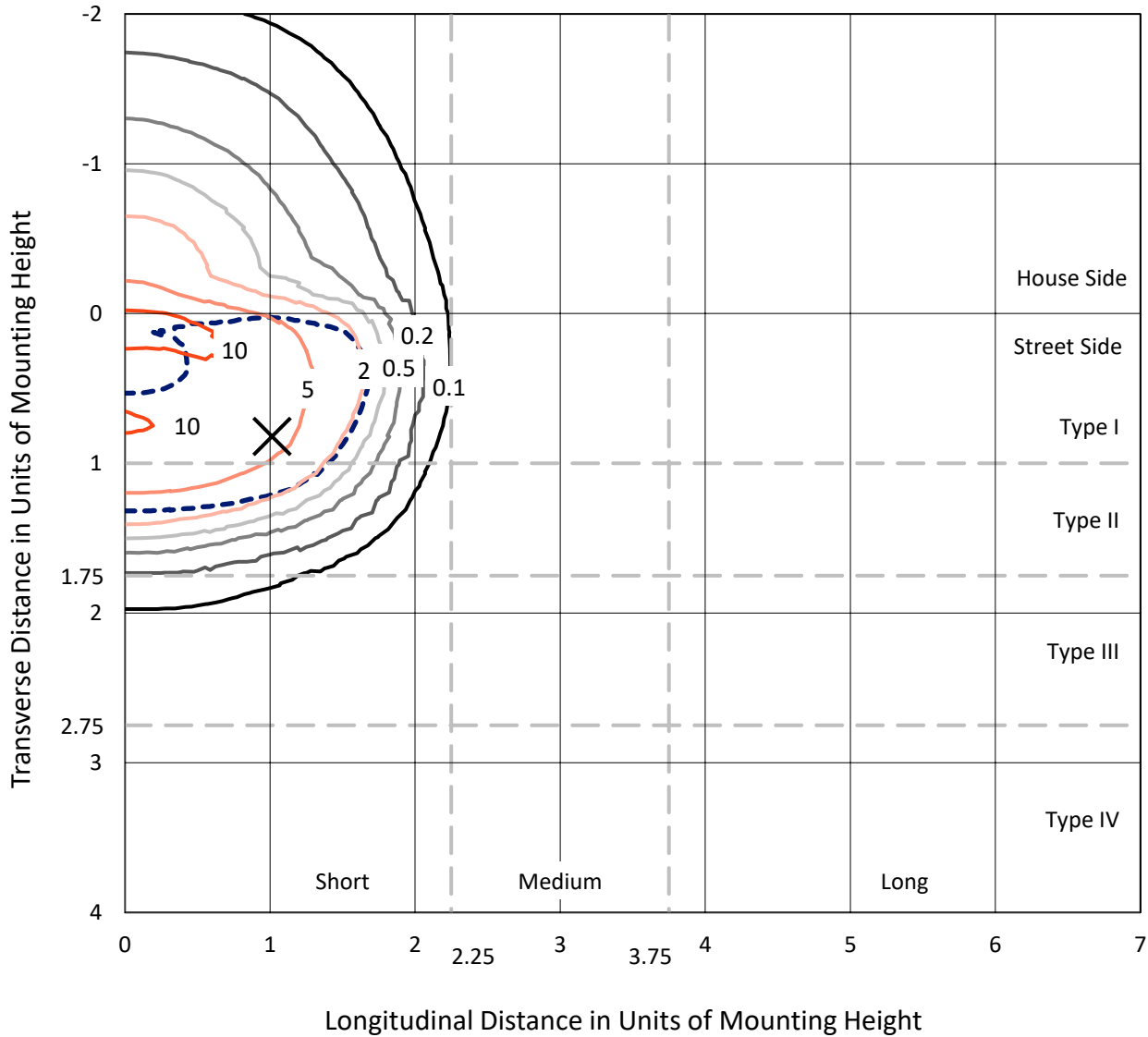
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

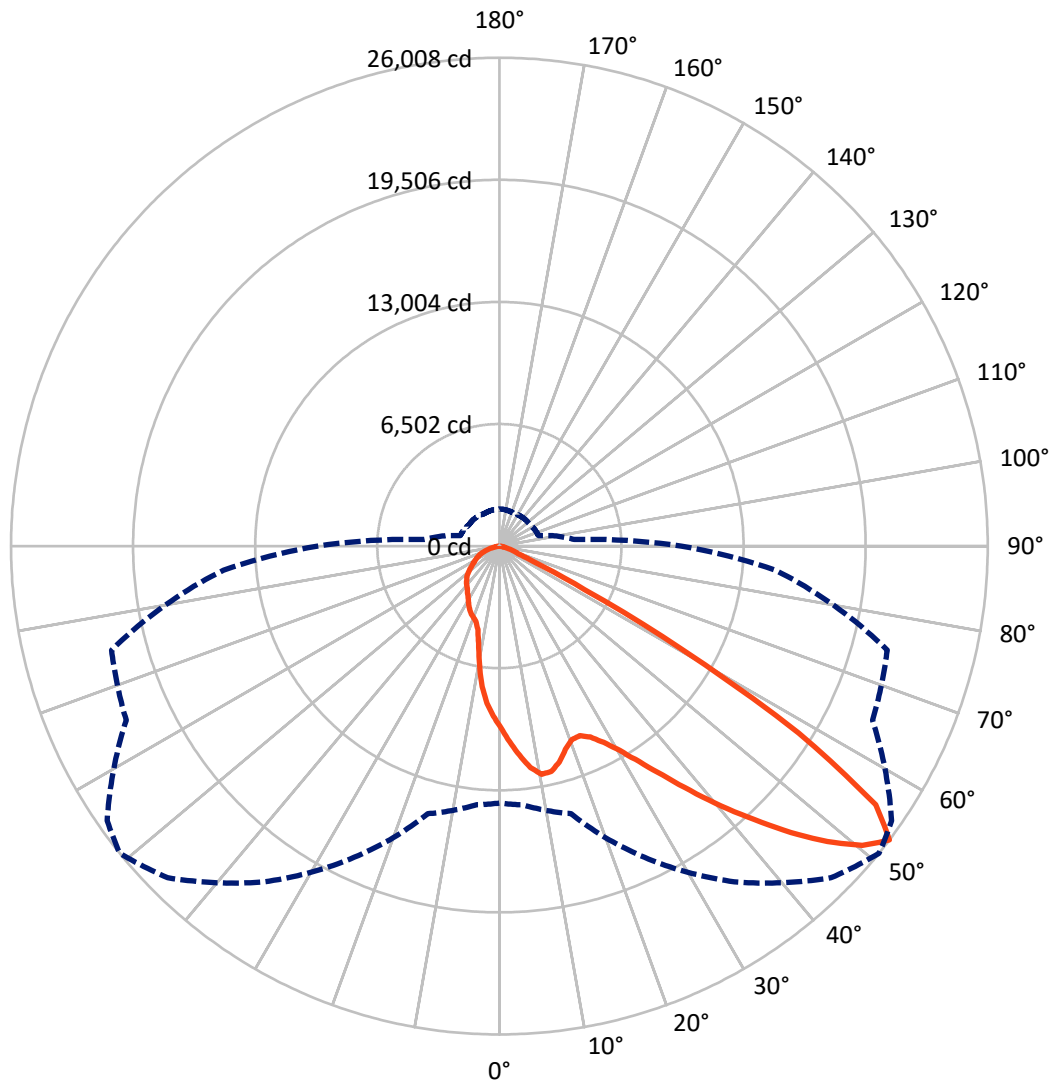
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 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	6331.9	0.0	6331.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26165.5	0.0	26165.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	32497.4	0.0	32497.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.9	2.8
10°-20°	2346.1	7.2
20°-30°	3814.6	11.7
30°-40°	6045.3	18.6
40°-50°	9117.6	28.1
50°-60°	7887.5	24.3
60°-70°	1788.2	5.5
70°-80°	527.3	1.6
80°-90°	67.9	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°	32497.4	100.0
0°-180°	32497.4	100.0

Coefficient of Utilization



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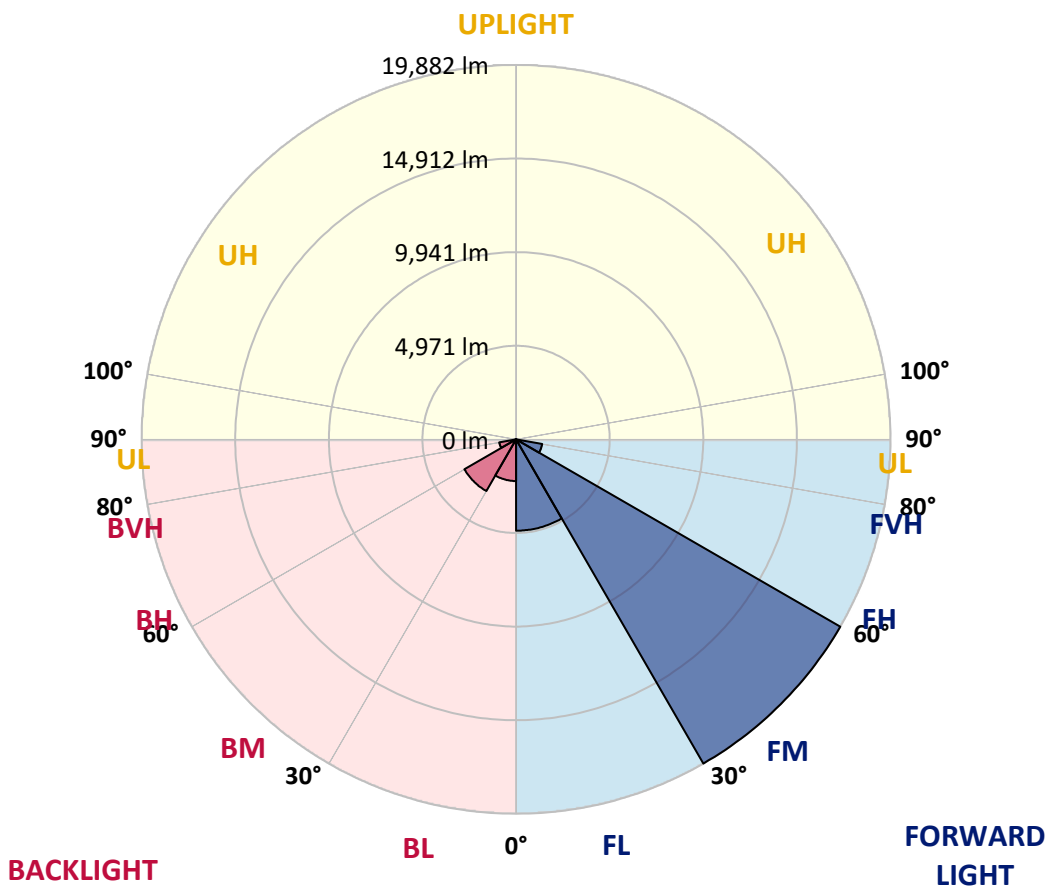
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4850.3	14.9			
FM (30°-60°)	19882.4	61.2			
FH (60°-80°)	1407.3	4.3			G1/1800
FVH (80°-90°)	25.6	0.1			G1/100
BL (0°-30°)	2213.3	6.8	B3/2500		
BM (30°-60°)	3168.0	9.7	B3/5000		
BH (60°-80°)	908.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	42.3	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°	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1
2.5°	10782.9	10844.5	10749.5	10713.6	10654.5	10551.8	10433.6	10400.3	10146.0	9979.1	9791.7
5°	11866.6	11900.0	11822.9	11745.9	11599.5	11417.2	11188.6	11139.8	10677.6	10295.0	9896.9
7.5°	12108.0	12095.1	12161.9	12205.5	12187.6	12115.7	11912.8	11817.8	11265.7	10659.6	10071.6
10°	11152.7	11080.8	11327.3	11620.0	11971.9	12377.6	12354.5	12346.8	11866.6	11150.1	10295.0
12.5°	9886.7	9850.7	10051.0	10418.2	11083.3	11982.1	12318.5	12580.5	12408.4	11617.5	10544.1
15°	9162.5	9149.7	9285.8	9550.3	10079.3	11214.3	11933.3	12452.1	12873.2	12118.2	10808.6
17.5°	9031.5	9039.2	9085.5	9237.0	9617.0	10551.8	11383.8	12108.0	13235.3	12667.8	11139.8
20°	9414.2	9465.5	9385.9	9409.0	9614.5	10313.0	11008.9	11761.3	13466.4	13219.9	11496.8
22.5°	10264.2	10246.2	10071.6	9968.8	9971.4	10459.3	10967.8	11599.5	13617.9	13756.6	11820.3
25°	11227.1	11206.6	10998.6	10770.1	10626.2	10857.4	11263.1	11771.6	13754.0	14247.1	12079.7
27.5°	12364.8	12300.6	12069.4	11776.7	11458.3	11558.4	11833.2	12236.4	13964.6	14729.9	12251.8
30°	13466.4	13540.9	13209.6	12862.9	12526.5	12464.9	12624.1	12988.8	14393.5	15294.8	12457.2
32.5°	14927.6	14901.9	14534.7	14082.7	13602.5	13556.3	13682.1	14016.0	15163.8	16075.5	12770.5
35°	16696.9	16702.1	16180.8	15569.6	14886.5	14763.2	14973.8	15297.4	16311.7	17133.5	13266.1
37.5°	18535.6	18527.9	18073.3	17380.0	16447.8	16273.2	16514.6	16756.0	17747.2	18574.1	14036.5
40°	19824.7	19876.1	19662.9	19298.3	18414.9	17988.6	18201.7	18368.7	19308.5	20269.0	15050.9
42.5°	20556.6	20633.6	20679.8	20898.1	20433.3	19978.8	19901.7	19989.1	20702.9	21843.1	16003.6
45°	20713.2	20815.9	21152.3	21961.2	22141.0	22012.6	21760.9	21550.4	21743.0	22960.2	16627.6
47.5°	20022.4	20202.2	20921.2	22336.2	23386.5	23789.6	23509.7	23188.7	22343.9	23247.8	16563.4
50°	17285.0	17495.6	19115.9	21570.9	23563.7	25032.5	25058.2	24583.1	22272.0	22418.3	15757.0
52.5°	13684.7	13828.5	14755.5	18286.5	21825.1	24981.2	26008.4	25499.9	21925.3	21380.9	14747.8
55°	8179.0	8410.1	9275.5	12064.3	17002.5	22141.0	24328.9	24575.4	21755.8	20510.3	14059.6
57.5°	2760.6	2873.6	3700.4	5328.5	10020.2	16211.6	18797.5	19799.0	19750.2	19180.1	12716.6
60°	1314.8	1340.5	1507.4	2021.0	4011.2	8471.7	11127.0	12282.6	13335.4	13440.7	7911.9
62.5°	1001.5	1016.9	1101.7	1212.1	1612.7	3569.5	5100.0	5983.4	6391.7	5485.2	2881.3
65°	837.2	850.0	914.2	983.5	1096.5	1545.9	1956.8	2257.2	2033.8	1584.4	1373.9
67.5°	698.5	708.8	757.6	832.0	909.1	1034.9	1086.2	1117.1	1171.0	1314.8	1263.4
70°	547.0	557.2	608.6	672.8	747.3	778.1	826.9	857.7	965.6	1150.4	1145.3
72.5°	421.1	434.0	462.2	503.3	565.0	595.8	649.7	685.6	747.3	896.2	957.9
75°	308.2	315.9	341.5	354.4	362.1	354.4	408.3	449.4	531.6	588.1	603.5
77.5°	125.8	141.2	136.1	136.1	161.8	195.2	223.4	249.1	305.6	339.0	341.5
80°	51.4	56.5	66.8	74.5	89.9	115.6	133.5	143.8	169.5	190.0	205.4
82.5°	30.8	33.4	38.5	41.1	51.4	66.8	77.0	84.7	105.3	125.8	133.5
85°	15.4	15.4	18.0	20.5	25.7	30.8	36.0	41.1	53.9	66.8	74.5
87.5°	2.6	2.6	2.6	5.1	7.7	10.3	12.8	15.4	18.0	20.5	25.7
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°	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1	9676.1
2.5°	9681.2	9542.6	9380.8	9252.4	9103.4	8993.0	8836.4	8738.8	8646.3	8569.3	8512.8
5°	9691.5	9457.8	9121.4	8823.5	8515.4	8222.6	7922.2	7678.2	7459.9	7277.6	7262.2
7.5°	9750.6	9414.2	8887.7	8366.4	7765.5	7185.2	6604.8	6132.3	5772.8	5585.3	5546.8
10°	9850.7	9409.0	8648.9	7816.9	6792.3	5857.5	5169.3	4809.8	4601.8	4527.3	4501.6
12.5°	9956.0	9396.2	8343.3	7041.4	5618.7	4799.5	4422.0	4378.4	4416.9	4422.0	4419.5
15°	10084.4	9388.5	7958.1	6132.3	4761.0	4309.0	4334.7	4427.2	4517.1	4537.6	4537.6
17.5°	10241.0	9370.5	7434.3	5243.8	4224.3	4214.0	4350.1	4473.4	4558.1	4573.5	4573.5
20°	10405.4	9324.3	6789.7	4519.6	4006.0	4155.0	4301.3	4396.4	4455.4	4476.0	4478.5
22.5°	10518.4	9201.0	6047.6	3982.9	3869.9	4042.0	4147.3	4244.8	4244.8	4193.5	4178.1
25°	10541.5	8936.5	5243.8	3615.7	3708.1	3867.4	3975.2	3918.7	3813.4	3772.3	3769.8
27.5°	10456.8	8551.3	4450.3	3353.8	3513.0	3672.2	3654.2	3572.0	3525.8	3484.7	3500.1
30°	10354.0	8089.1	3762.1	3138.1	3287.0	3443.6	3382.0	3353.8	3320.4	3274.2	3284.4
32.5°	10284.7	7572.9	3233.1	2971.1	3135.5	3161.2	3204.8	3202.3	3171.4	3084.1	3079.0
35°	10305.2	7051.6	2878.7	2835.0	3009.7	2999.4	3081.6	3066.2	2853.0	2732.3	2724.6
37.5°	10469.6	6550.9	2670.7	2727.2	2809.4	2873.6	2945.5	2760.6	2686.1	2609.1	2614.2
40°	10782.9	6086.1	2557.7	2668.1	2688.7	2783.7	2616.8	2614.2	2580.8	2511.5	2508.9
42.5°	11137.3	5693.2	2480.7	2639.9	2611.6	2629.6	2452.4	2473.0	2470.4	2426.7	2413.9
45°	11353.0	5331.1	2419.0	2534.6	2542.3	2362.5	2308.6	2331.7	2344.6	2321.4	2318.9
47.5°	11129.6	4915.1	2354.8	2372.8	2439.6	2241.8	2175.1	2177.6	2200.7	2203.3	2193.0
50°	10503.0	4450.3	2277.8	2234.1	2190.5	2116.0	2054.4	2041.5	2064.6	2087.8	2095.5
52.5°	9694.1	4006.0	2149.4	2082.6	1979.9	1979.9	1951.7	1910.6	1941.4	1972.2	1982.5
55°	9100.9	3677.3	1967.1	1892.6	1779.6	1818.1	1813.0	1777.0	1818.1	1841.2	1848.9
57.5°	7886.2	2955.7	1730.8	1707.7	1612.7	1658.9	1669.2	1623.0	1602.4	1607.5	1615.3
60°	4681.4	1908.0	1561.3	1558.8	1474.0	1527.9	1558.8	1512.5	1450.9	1458.6	1468.9
62.5°	2100.6	1458.6	1348.2	1337.9	1335.3	1404.7	1438.1	1394.4	1307.1	1314.8	1325.1
65°	1322.5	1260.9	1171.0	1171.0	1212.1	1271.1	1296.8	1260.9	1160.7	1147.9	1158.2
67.5°	1227.5	1173.6	1081.1	1063.1	1083.7	1132.5	1135.0	1065.7	1006.6	996.4	996.4
70°	1101.7	1060.6	970.7	934.7	927.0	924.5	916.8	898.8	860.3	850.0	855.1
72.5°	911.6	883.4	826.9	788.4	767.8	765.3	734.4	719.0	685.6	680.5	677.9
75°	603.5	611.2	611.2	606.0	588.1	580.4	547.0	531.6	493.0	477.6	475.1
77.5°	356.9	364.7	374.9	377.5	374.9	374.9	344.1	326.1	287.6	267.1	261.9
80°	218.3	223.4	228.5	236.3	226.0	218.3	190.0	172.1	154.1	141.2	138.7
82.5°	141.2	146.4	148.9	154.1	148.9	138.7	115.6	105.3	92.4	82.2	79.6
85°	79.6	82.2	87.3	87.3	79.6	71.9	59.1	51.4	43.7	38.5	38.5
87.5°	28.2	28.2	28.2	30.8	25.7	23.1	15.4	10.3	7.7	7.7	7.7
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)