

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: P642808

Luminaire Tested: GWS-SA6D-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642808
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32786.6 lumens
Efficiency: N/A
Efficacy: 133.4 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

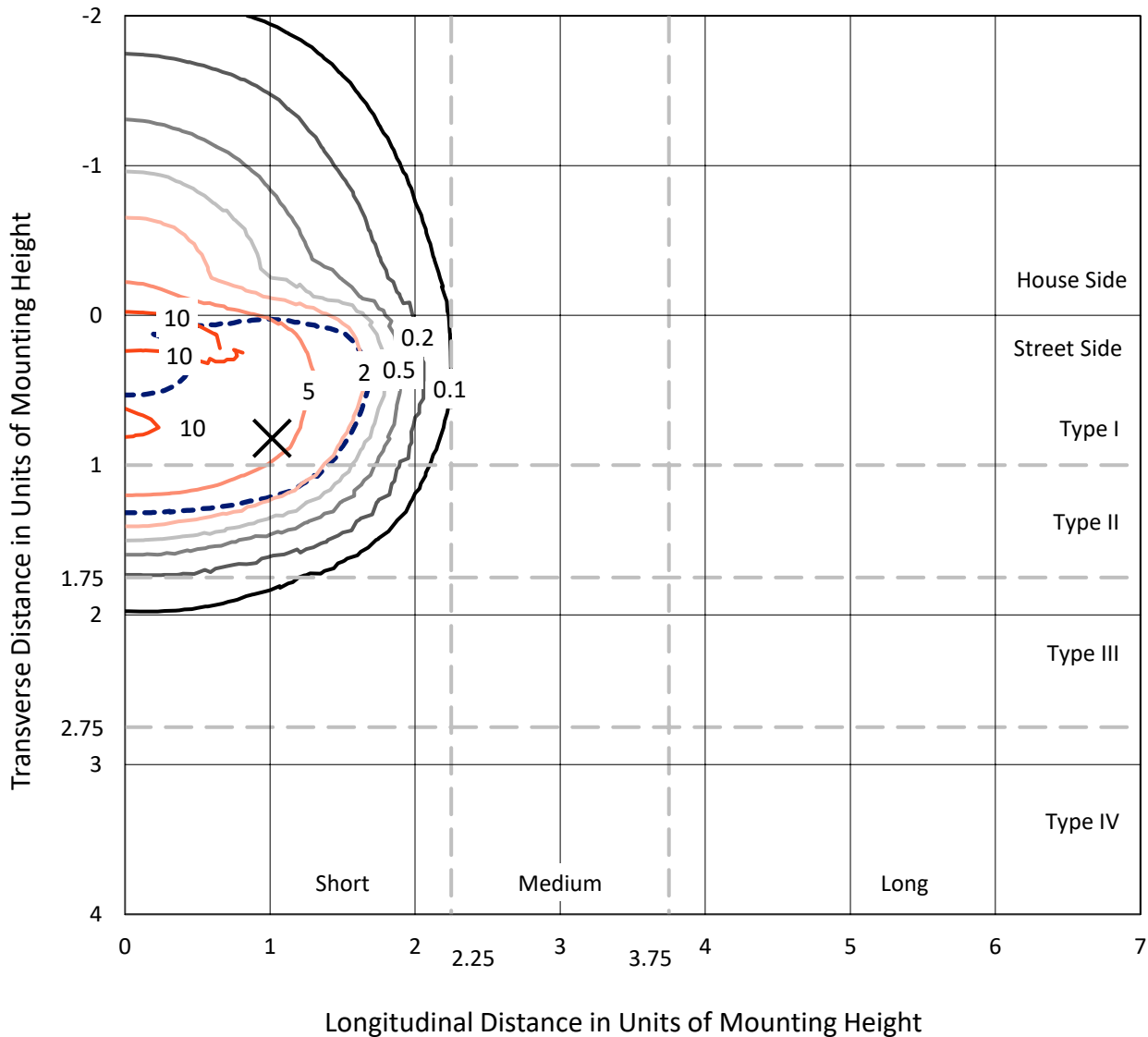


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Iso-Footcandle Lines of Horizontal Illumination

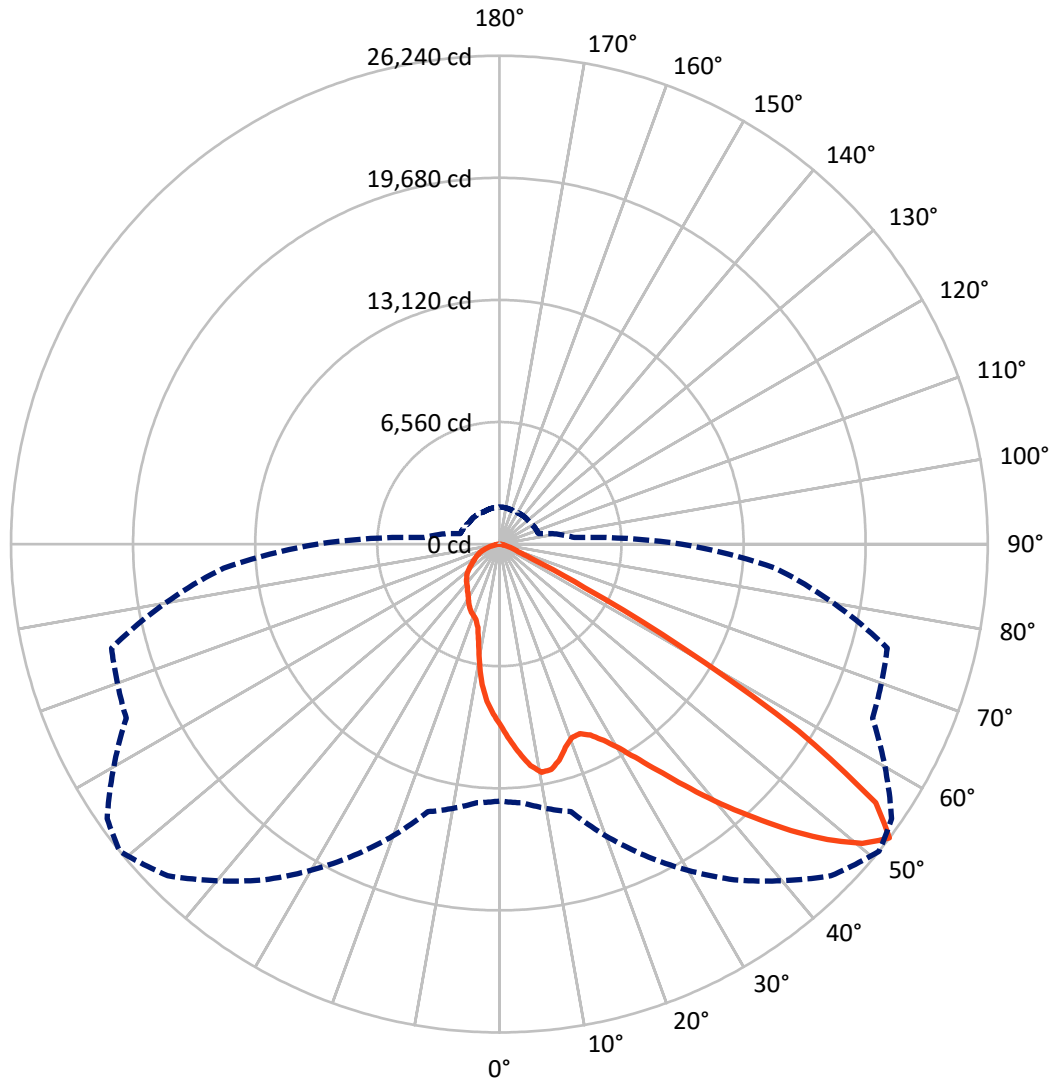
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 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	6388.2	0.0	6388.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26398.4	0.0	26398.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	32786.6	0.0	32786.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.9	2.8
10°-20°	2367.0	7.2
20°-30°	3848.6	11.7
30°-40°	6099.1	18.6
40°-50°	9198.8	28.1
50°-60°	7957.7	24.3
60°-70°	1804.1	5.5
70°-80°	531.9	1.6
80°-90°	68.5	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°	32786.6	100.0
0°-180°	32786.6	100.0

Coefficient of Utilization



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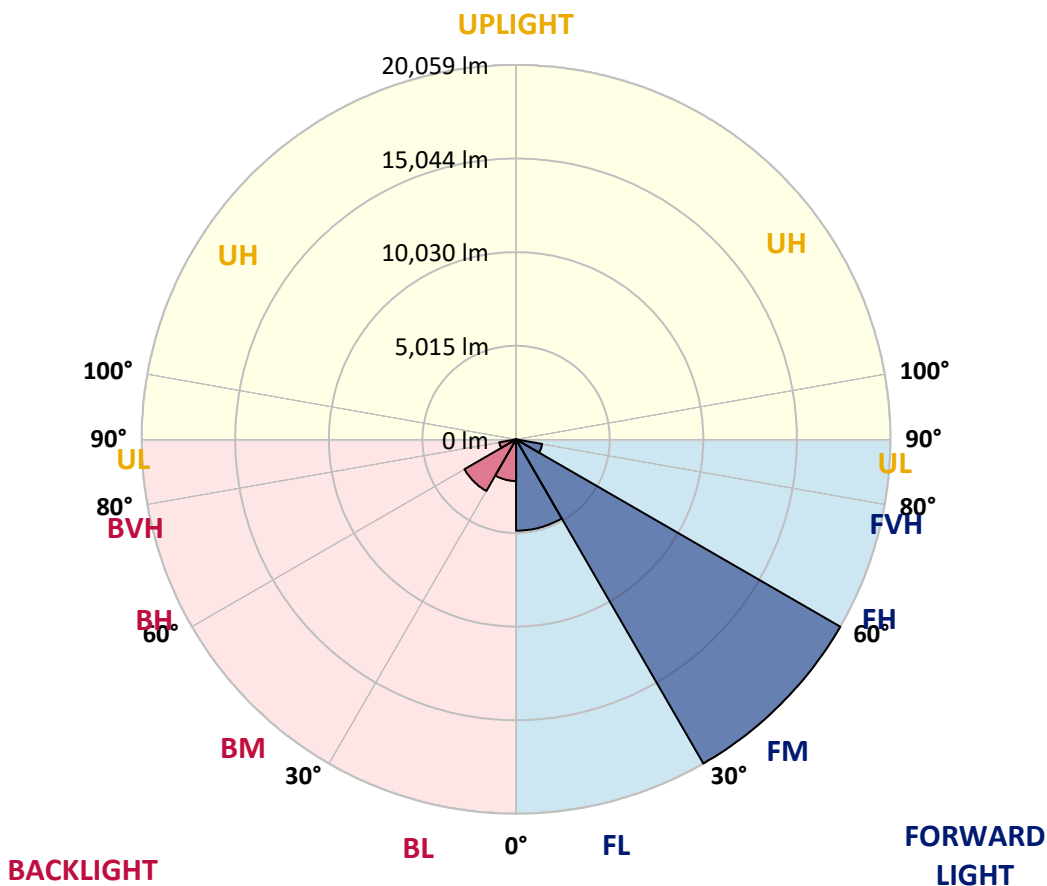
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4893.5	14.9			
FM (30°-60°)	20059.3	61.2			
FH (60°-80°)	1419.8	4.3			G1/1800
FVH (80°-90°)	25.8	0.1			G1/100
BL (0°-30°)	2233.0	6.8	B3/2500		
BM (30°-60°)	3196.2	9.7	B3/5000		
BH (60°-80°)	916.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	42.7	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°	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2
2.5°	10878.8	10941.0	10845.2	10808.9	10749.3	10645.7	10526.5	10492.8	10236.3	10067.9	9878.8
5°	11972.2	12005.9	11928.1	11850.4	11702.7	11518.8	11288.2	11239.0	10772.6	10386.6	9985.0
7.5°	12215.7	12202.8	12270.1	12314.2	12296.0	12223.5	12018.8	11922.9	11365.9	10754.5	10161.2
10°	11251.9	11179.4	11428.1	11723.5	12078.4	12487.7	12464.4	12456.7	11972.2	11249.3	10386.6
12.5°	9974.7	9938.4	10140.5	10511.0	11182.0	12088.8	12428.2	12692.4	12518.8	11720.9	10637.9
15°	9244.0	9231.1	9368.4	9635.3	10169.0	11314.1	12039.5	12562.9	12987.8	12226.1	10904.8
17.5°	9111.9	9119.7	9166.3	9319.2	9702.6	10645.7	11485.1	12215.7	13353.1	12780.5	11239.0
20°	9497.9	9549.8	9469.4	9492.8	9700.0	10404.7	11106.8	11866.0	13586.3	13337.5	11599.1
22.5°	10355.5	10337.4	10161.2	10057.6	10060.2	10552.4	11065.4	11702.7	13739.1	13879.0	11925.5
25°	11327.1	11306.3	11096.5	10865.9	10720.8	10954.0	11363.3	11876.3	13876.4	14373.9	12187.2
27.5°	12474.8	12410.0	12176.9	11881.5	11560.2	11661.3	11938.5	12345.3	14088.9	14860.9	12360.8
30°	13586.3	13661.4	13327.2	12977.4	12638.0	12575.8	12736.5	13104.4	14521.5	15430.9	12568.1
32.5°	15060.4	15034.5	14664.0	14208.1	13723.6	13676.9	13803.9	14140.7	15298.8	16218.5	12884.1
35°	16845.5	16850.7	16324.8	15708.1	15019.0	14894.6	15107.1	15433.5	16456.9	17285.9	13384.2
37.5°	18700.5	18692.8	18234.2	17534.7	16594.2	16418.0	16661.6	16905.1	17905.2	18739.4	14161.4
40°	20001.1	20052.9	19837.9	19470.0	18578.8	18148.7	18363.7	18532.1	19480.4	20449.3	15184.8
42.5°	20739.5	20817.2	20863.9	21084.1	20615.1	20156.6	20078.8	20166.9	20887.2	22037.5	16146.0
45°	20897.5	21001.2	21340.6	22156.7	22338.0	22208.5	21954.6	21742.2	21936.5	23164.5	16775.6
47.5°	20200.6	20382.0	21107.4	22534.9	23594.6	24001.3	23718.9	23395.1	22542.7	23454.7	16710.8
50°	17438.8	17651.3	19286.1	21762.9	23773.4	25255.3	25281.2	24801.9	22470.2	22617.9	15897.3
52.5°	13806.5	13951.6	14886.8	18449.2	22019.4	25203.5	26239.8	25726.8	22120.4	21571.2	14879.1
55°	8251.8	8484.9	9358.0	12171.7	17153.8	22338.0	24545.4	24794.1	21949.4	20692.9	14184.7
57.5°	2785.1	2899.1	3733.4	5375.9	10109.4	16355.8	18964.8	19975.2	19926.0	19350.8	12829.7
60°	1326.5	1352.4	1520.8	2039.0	4046.9	8547.1	11226.0	12391.9	13454.1	13560.3	7982.3
62.5°	1010.4	1026.0	1111.5	1222.9	1627.0	3601.2	5145.4	6036.6	6448.5	5534.0	2906.9
65°	844.6	857.6	922.3	992.3	1106.3	1559.7	1974.2	2277.3	2051.9	1598.5	1386.1
67.5°	704.7	715.1	764.3	839.4	917.1	1044.1	1095.9	1127.0	1181.4	1326.5	1274.7
70°	551.8	562.2	614.0	678.8	753.9	785.0	834.2	865.3	974.1	1160.7	1155.5
72.5°	424.9	437.8	466.3	507.8	570.0	601.1	655.5	691.7	753.9	904.2	966.4
75°	310.9	318.7	344.6	357.5	365.3	357.5	411.9	453.4	536.3	593.3	608.8
77.5°	127.0	142.5	137.3	137.3	163.2	196.9	225.4	251.3	308.3	342.0	344.6
80°	51.8	57.0	67.4	75.1	90.7	116.6	134.7	145.1	171.0	191.7	207.3
82.5°	31.1	33.7	38.9	41.5	51.8	67.4	77.7	85.5	106.2	127.0	134.7
85°	15.5	15.5	18.1	20.7	25.9	31.1	36.3	41.5	54.4	67.4	75.1
87.5°	2.6	2.6	2.6	5.2	7.8	10.4	13.0	15.5	18.1	20.7	25.9
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°	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2	9762.2
2.5°	9767.4	9627.5	9464.3	9334.7	9184.5	9073.0	8915.0	8816.6	8723.3	8645.6	8588.6
5°	9777.8	9542.0	9202.6	8902.1	8591.2	8295.8	7992.7	7746.5	7526.3	7342.4	7326.8
7.5°	9837.3	9497.9	8966.8	8440.9	7834.6	7249.1	6663.6	6186.9	5824.2	5635.0	5596.2
10°	9938.4	9492.8	8725.9	7886.5	6852.7	5909.7	5215.3	4852.6	4642.7	4567.6	4541.7
12.5°	10044.6	9479.8	8417.6	7104.0	5668.7	4842.2	4461.4	4417.3	4456.2	4461.4	4458.8
15°	10174.1	9472.0	8028.9	6186.9	4803.4	4347.4	4373.3	4466.6	4557.3	4578.0	4578.0
17.5°	10332.2	9453.9	7500.4	5290.5	4261.9	4251.5	4388.8	4513.2	4598.7	4614.2	4614.2
20°	10498.0	9407.3	6850.1	4559.8	4041.7	4191.9	4339.6	4435.5	4495.1	4515.8	4518.4
22.5°	10612.0	9282.9	6101.4	4018.4	3904.4	4077.9	4184.2	4282.6	4282.6	4230.8	4215.3
25°	10635.3	9016.1	5290.5	3647.9	3741.1	3901.8	4010.6	3953.6	3847.4	3805.9	3803.3
27.5°	10549.8	8627.4	4489.9	3383.6	3544.2	3704.9	3686.7	3603.8	3557.2	3515.7	3531.3
30°	10446.2	8161.1	3795.6	3166.0	3316.2	3474.3	3412.1	3383.6	3349.9	3303.3	3313.7
32.5°	10376.2	7640.3	3261.8	2997.6	3163.4	3189.3	3233.3	3230.8	3199.7	3111.6	3106.4
35°	10397.0	7114.4	2904.3	2860.3	3036.4	3026.1	3109.0	3093.4	2878.4	2756.6	2748.9
37.5°	10562.8	6609.2	2694.5	2751.4	2834.4	2899.1	2971.7	2785.1	2710.0	2632.3	2637.5
40°	10878.8	6140.2	2580.5	2691.9	2712.6	2808.4	2640.0	2637.5	2603.8	2533.8	2531.2
42.5°	11236.4	5743.8	2502.7	2663.4	2634.9	2653.0	2474.2	2495.0	2492.4	2448.3	2435.4
45°	11454.0	5378.5	2440.6	2557.1	2564.9	2383.6	2329.1	2352.5	2365.4	2342.1	2339.5
47.5°	11228.6	4958.8	2375.8	2393.9	2461.3	2261.8	2194.4	2197.0	2220.3	2222.9	2212.6
50°	10596.5	4489.9	2298.1	2254.0	2210.0	2134.8	2072.7	2059.7	2083.0	2106.3	2114.1
52.5°	9780.3	4041.7	2168.5	2101.2	1997.5	1997.5	1969.0	1927.6	1958.7	1989.7	2000.1
55°	9181.9	3710.1	1984.6	1909.4	1795.4	1834.3	1829.1	1792.8	1834.3	1857.6	1865.4
57.5°	7956.4	2982.0	1746.2	1722.9	1627.0	1673.7	1684.0	1637.4	1616.7	1621.9	1629.6
60°	4723.1	1925.0	1575.2	1572.6	1487.1	1541.5	1572.6	1526.0	1463.8	1471.6	1481.9
62.5°	2119.3	1471.6	1360.2	1349.8	1347.2	1417.2	1450.9	1406.8	1318.7	1326.5	1336.9
65°	1334.3	1272.1	1181.4	1181.4	1222.9	1282.5	1308.4	1272.1	1171.1	1158.1	1168.5
67.5°	1238.4	1184.0	1090.7	1072.6	1093.3	1142.6	1145.1	1075.2	1015.6	1005.2	1005.2
70°	1111.5	1070.0	979.3	943.1	935.3	932.7	924.9	906.8	867.9	857.6	862.7
72.5°	919.7	891.2	834.2	795.4	774.7	772.1	741.0	725.4	691.7	686.6	684.0
75°	608.8	616.6	616.6	611.4	593.3	585.5	551.8	536.3	497.4	481.9	479.3
77.5°	360.1	367.9	378.3	380.9	378.3	378.3	347.2	329.0	290.2	269.4	264.3
80°	220.2	225.4	230.6	238.4	228.0	220.2	191.7	173.6	155.4	142.5	139.9
82.5°	142.5	147.7	150.3	155.4	150.3	139.9	116.6	106.2	93.3	82.9	80.3
85°	80.3	82.9	88.1	88.1	80.3	72.5	59.6	51.8	44.0	38.9	38.9
87.5°	28.5	28.5	28.5	31.1	25.9	23.3	15.5	10.4	7.8	7.8	7.8
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)