

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: P640278

Luminaire Tested: GWS-SA5D-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640278
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-SA5D-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: 27877.7 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

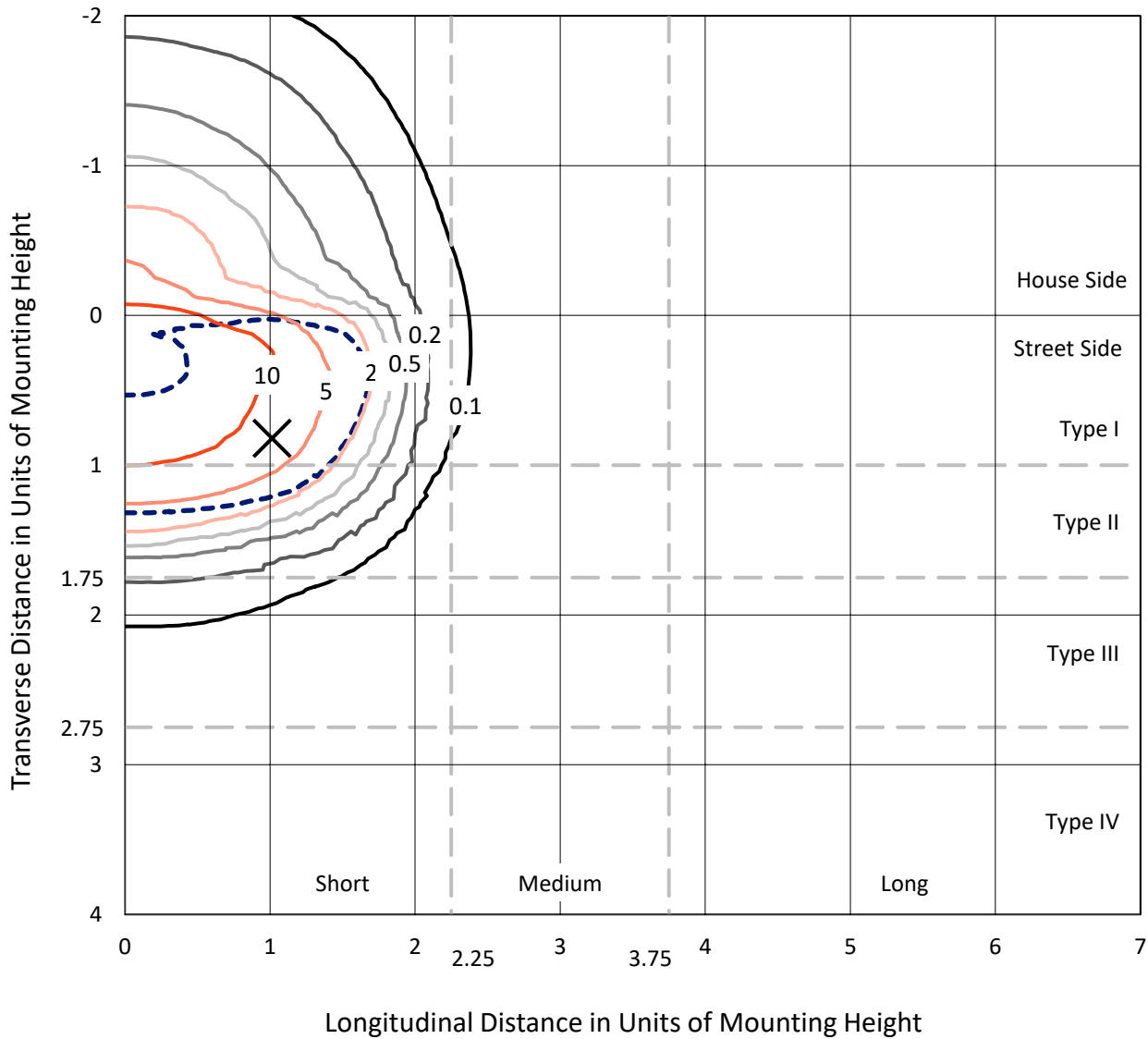
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

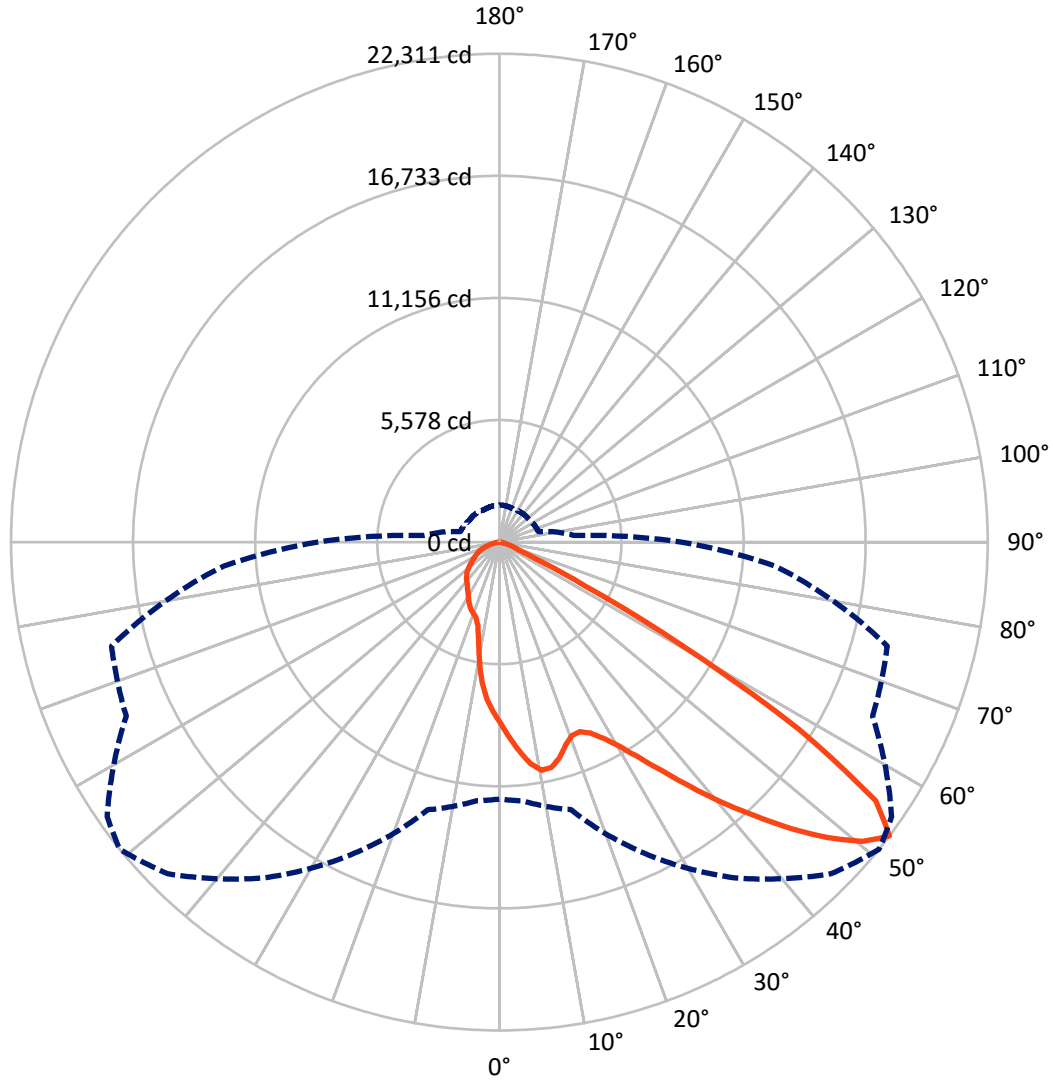
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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	5431.7	0.0	5431.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22446.0	0.0	22446.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	27877.7	0.0	27877.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.6	2.8
10°-20°	2012.6	7.2
20°-30°	3272.3	11.7
30°-40°	5185.9	18.6
40°-50°	7821.5	28.1
50°-60°	6766.2	24.3
60°-70°	1534.0	5.5
70°-80°	452.3	1.6
80°-90°	58.3	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°	27877.7	100.0
0°-180°	27877.7	100.0

Coefficient of Utilization



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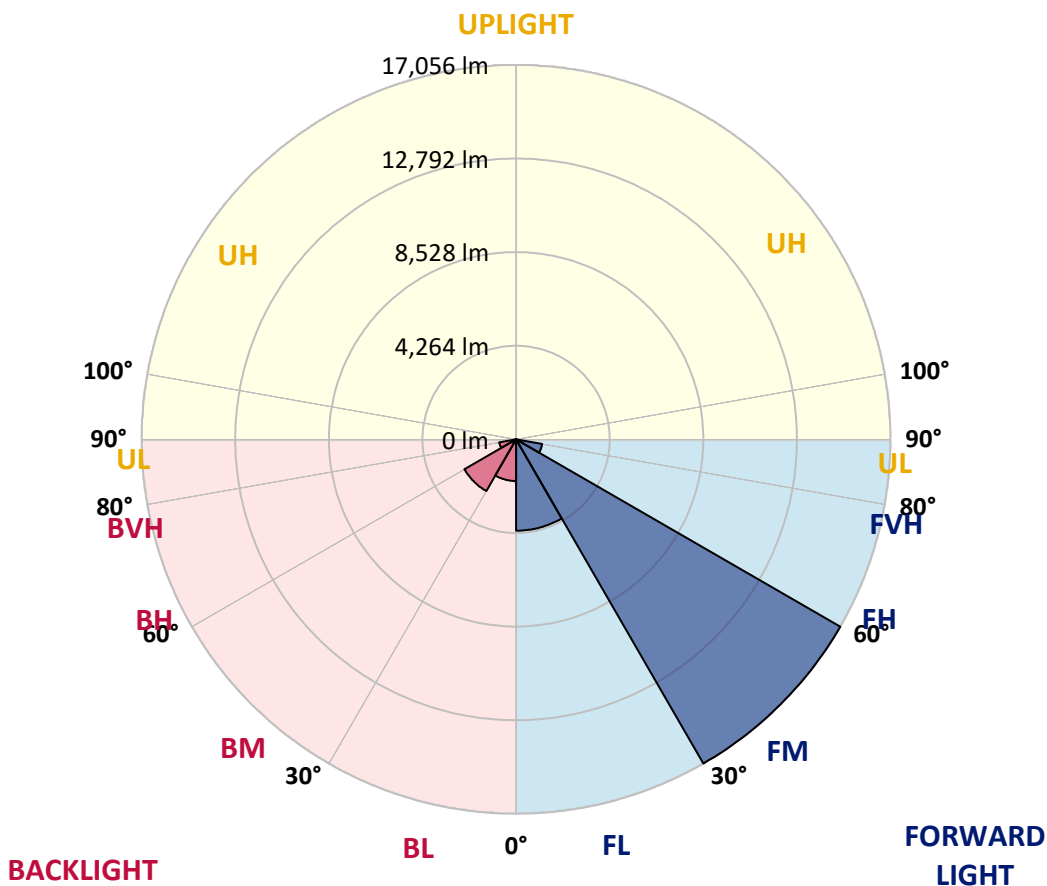
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4160.8	14.9			
FM (30°-60°)	17056.0	61.2			
FH (60°-80°)	1207.2	4.3			G1/1800
FVH (80°-90°)	21.9	0.1			G1/100
BL (0°-30°)	1898.7	6.8	B3/2500		
BM (30°-60°)	2717.7	9.7	B3/5000		
BH (60°-80°)	779.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	36.3	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°	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6
2.5°	9250.0	9302.9	9221.4	9190.6	9139.9	9051.8	8950.4	8921.8	8703.7	8560.5	8399.7
5°	10179.7	10208.3	10142.2	10076.1	9950.6	9794.2	9598.1	9556.2	9159.7	8831.5	8490.0
7.5°	10386.7	10375.7	10433.0	10470.5	10455.0	10393.4	10219.3	10137.8	9664.2	9144.3	8639.8
10°	9567.3	9505.6	9717.1	9968.2	10270.0	10618.0	10598.2	10591.6	10179.7	9565.1	8831.5
12.5°	8481.2	8450.4	8622.2	8937.2	9507.8	10278.8	10567.4	10792.1	10644.5	9966.0	9045.2
15°	7860.0	7849.0	7965.7	8192.6	8646.4	9620.1	10236.9	10681.9	11043.2	10395.6	9272.1
17.5°	7747.7	7754.3	7793.9	7923.9	8249.9	9051.8	9765.5	10386.7	11353.8	10867.0	9556.2
20°	8075.9	8119.9	8051.7	8071.5	8247.7	8846.9	9443.9	10089.3	11552.1	11340.6	9862.4
22.5°	8805.0	8789.6	8639.8	8551.7	8553.9	8972.5	9408.6	9950.6	11682.1	11801.0	10140.0
25°	9631.1	9613.5	9435.1	9239.0	9115.7	9313.9	9662.0	10098.2	11798.8	12221.8	10362.5
27.5°	10607.0	10552.0	10353.7	10102.6	9829.4	9915.3	10151.0	10496.9	11979.4	12635.9	10510.1
30°	11552.1	11616.0	11331.8	11034.4	10745.8	10692.9	10829.5	11142.3	12347.3	13120.6	10686.3
32.5°	12805.5	12783.5	12468.5	12080.8	11668.8	11629.2	11737.1	12023.5	13008.2	13790.2	10955.1
35°	14323.4	14327.8	13880.6	13356.3	12770.3	12664.6	12845.2	13122.8	13992.9	14697.8	11380.3
37.5°	15900.6	15894.0	15504.1	14909.3	14109.7	13959.9	14166.9	14374.0	15224.3	15933.7	12041.1
40°	17006.5	17050.6	16867.7	16554.9	15797.1	15431.4	15614.3	15757.4	16563.7	17387.6	12911.3
42.5°	17634.3	17700.4	17740.1	17927.3	17528.6	17138.7	17072.6	17147.5	17759.9	18738.0	13728.6
45°	17768.7	17856.8	18145.4	18839.3	18993.5	18883.4	18667.5	18486.9	18652.1	19696.3	14263.9
47.5°	17176.1	17330.3	17947.1	19161.0	20061.9	20407.8	20167.7	19892.3	19167.6	19943.0	14208.8
50°	14827.8	15008.5	16398.5	18504.5	20213.9	21474.0	21496.0	21088.5	19105.9	19231.4	13517.1
52.5°	11739.3	11862.7	12657.9	15687.0	18722.6	21430.0	22311.1	21874.9	18808.5	18341.5	12651.3
55°	7016.3	7214.5	7956.9	10349.3	14585.5	18993.5	20870.4	21081.9	18663.1	17594.7	12061.0
57.5°	2368.1	2465.1	3174.4	4571.0	8595.8	13907.0	16125.3	16984.5	16942.6	16453.6	10908.8
60°	1127.9	1149.9	1293.1	1733.7	3441.0	7267.4	9545.2	10536.5	11439.7	11530.1	6787.2
62.5°	859.1	872.4	945.1	1039.8	1383.4	3062.1	4375.0	5132.8	5483.1	4705.4	2471.7
65°	718.2	729.2	784.2	843.7	940.6	1326.2	1678.6	1936.4	1744.7	1359.2	1178.6
67.5°	599.2	608.0	649.9	713.7	779.8	887.8	931.8	958.3	1004.5	1127.9	1083.8
70°	469.2	478.0	522.1	577.2	641.0	667.5	709.3	735.8	828.3	986.9	982.5
72.5°	361.3	372.3	396.5	431.8	484.6	511.1	557.3	588.2	641.0	768.8	821.7
75°	264.3	271.0	293.0	304.0	310.6	304.0	350.3	385.5	456.0	504.5	517.7
77.5°	107.9	121.2	116.8	116.8	138.8	167.4	191.7	213.7	262.1	290.8	293.0
80°	44.1	48.5	57.3	63.9	77.1	99.1	114.6	123.4	145.4	163.0	176.2
82.5°	26.4	28.6	33.0	35.2	44.1	57.3	66.1	72.7	90.3	107.9	114.6
85°	13.2	13.2	15.4	17.6	22.0	26.4	30.8	35.2	46.3	57.3	63.9
87.5°	2.2	2.2	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	22.0
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°	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6	8300.6
2.5°	8305.0	8186.0	8047.2	7937.1	7809.3	7714.6	7580.2	7496.5	7417.2	7351.1	7302.7
5°	8313.8	8113.3	7824.8	7569.2	7304.9	7053.7	6796.0	6586.7	6399.5	6243.1	6229.8
7.5°	8364.5	8075.9	7624.3	7177.1	6661.6	6163.8	5665.9	5260.6	4952.2	4791.3	4758.3
10°	8450.4	8071.5	7419.4	6705.7	5826.7	5024.8	4434.5	4126.1	3947.6	3883.7	3861.7
12.5°	8540.7	8060.5	7157.3	6040.4	4820.0	4117.2	3793.4	3756.0	3789.0	3793.4	3791.2
15°	8650.8	8053.9	6826.8	5260.6	4084.2	3696.5	3718.5	3797.8	3874.9	3892.6	3892.6
17.5°	8785.2	8038.4	6377.4	4498.4	3623.8	3615.0	3731.7	3837.5	3910.2	3923.4	3923.4
20°	8926.2	7998.8	5824.5	3877.1	3436.5	3564.3	3689.9	3771.4	3822.1	3839.7	3841.9
22.5°	9023.1	7893.0	5187.9	3416.7	3319.8	3467.4	3557.7	3641.4	3641.4	3597.4	3584.1
25°	9043.0	7666.1	4498.4	3101.7	3181.0	3317.6	3410.1	3361.6	3271.3	3236.1	3233.9
27.5°	8970.3	7335.7	3817.7	2877.0	3013.6	3150.2	3134.7	3064.3	3024.6	2989.4	3002.6
30°	8882.2	6939.2	3227.3	2692.0	2819.7	2954.1	2901.2	2877.0	2848.4	2808.7	2817.5
32.5°	8822.7	6496.4	2773.5	2548.8	2689.8	2711.8	2749.2	2747.0	2720.6	2645.7	2641.3
35°	8840.3	6049.2	2469.5	2432.0	2581.8	2573.0	2643.5	2630.3	2447.4	2343.9	2337.3
37.5°	8981.3	5619.6	2291.0	2339.5	2410.0	2465.1	2526.7	2368.1	2304.2	2238.2	2242.6
40°	9250.0	5220.9	2194.1	2288.8	2306.5	2388.0	2244.8	2242.6	2213.9	2154.5	2152.2
42.5°	9554.0	4883.9	2128.0	2264.6	2240.4	2255.8	2103.8	2121.4	2119.2	2081.8	2070.7
45°	9739.1	4573.3	2075.1	2174.3	2180.9	2026.7	1980.4	2000.2	2011.3	1991.4	1989.2
47.5°	9547.4	4216.4	2020.1	2035.5	2092.8	1923.1	1865.9	1868.1	1887.9	1890.1	1881.3
50°	9009.9	3817.7	1954.0	1916.5	1879.1	1815.2	1762.3	1751.3	1771.1	1791.0	1797.6
52.5°	8316.0	3436.5	1843.8	1786.6	1698.4	1698.4	1674.2	1639.0	1665.4	1691.8	1700.7
55°	7807.1	3154.6	1687.4	1623.5	1526.6	1559.7	1555.3	1524.4	1559.7	1579.5	1586.1
57.5°	6765.2	2535.6	1484.8	1464.9	1383.4	1423.1	1431.9	1392.2	1374.6	1379.0	1385.6
60°	4015.9	1636.8	1339.4	1337.2	1264.5	1310.7	1337.2	1297.5	1244.6	1251.3	1260.1
62.5°	1802.0	1251.3	1156.5	1147.7	1145.5	1205.0	1233.6	1196.2	1121.3	1127.9	1136.7
65°	1134.5	1081.6	1004.5	1004.5	1039.8	1090.4	1112.5	1081.6	995.7	984.7	993.5
67.5°	1053.0	1006.7	927.4	912.0	929.6	971.5	973.7	914.2	863.5	854.7	854.7
70°	945.1	909.8	832.7	801.9	795.3	793.0	786.4	771.0	738.0	729.2	733.6
72.5°	782.0	757.8	709.3	676.3	658.7	656.5	630.0	616.8	588.2	583.8	581.6
75°	517.7	524.3	524.3	519.9	504.5	497.9	469.2	456.0	423.0	409.7	407.5
77.5°	306.2	312.8	321.6	323.8	321.6	321.6	295.2	279.8	246.7	229.1	224.7
80°	187.2	191.7	196.1	202.7	193.9	187.2	163.0	147.6	132.2	121.2	119.0
82.5°	121.2	125.6	127.8	132.2	127.8	119.0	99.1	90.3	79.3	70.5	68.3
85°	68.3	70.5	74.9	74.9	68.3	61.7	50.7	44.1	37.4	33.0	33.0
87.5°	24.2	24.2	24.2	26.4	22.0	19.8	13.2	8.8	6.6	6.6	6.6
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)