

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: P640443

Luminaire Tested: GWS-SA5D-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640443
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21649.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

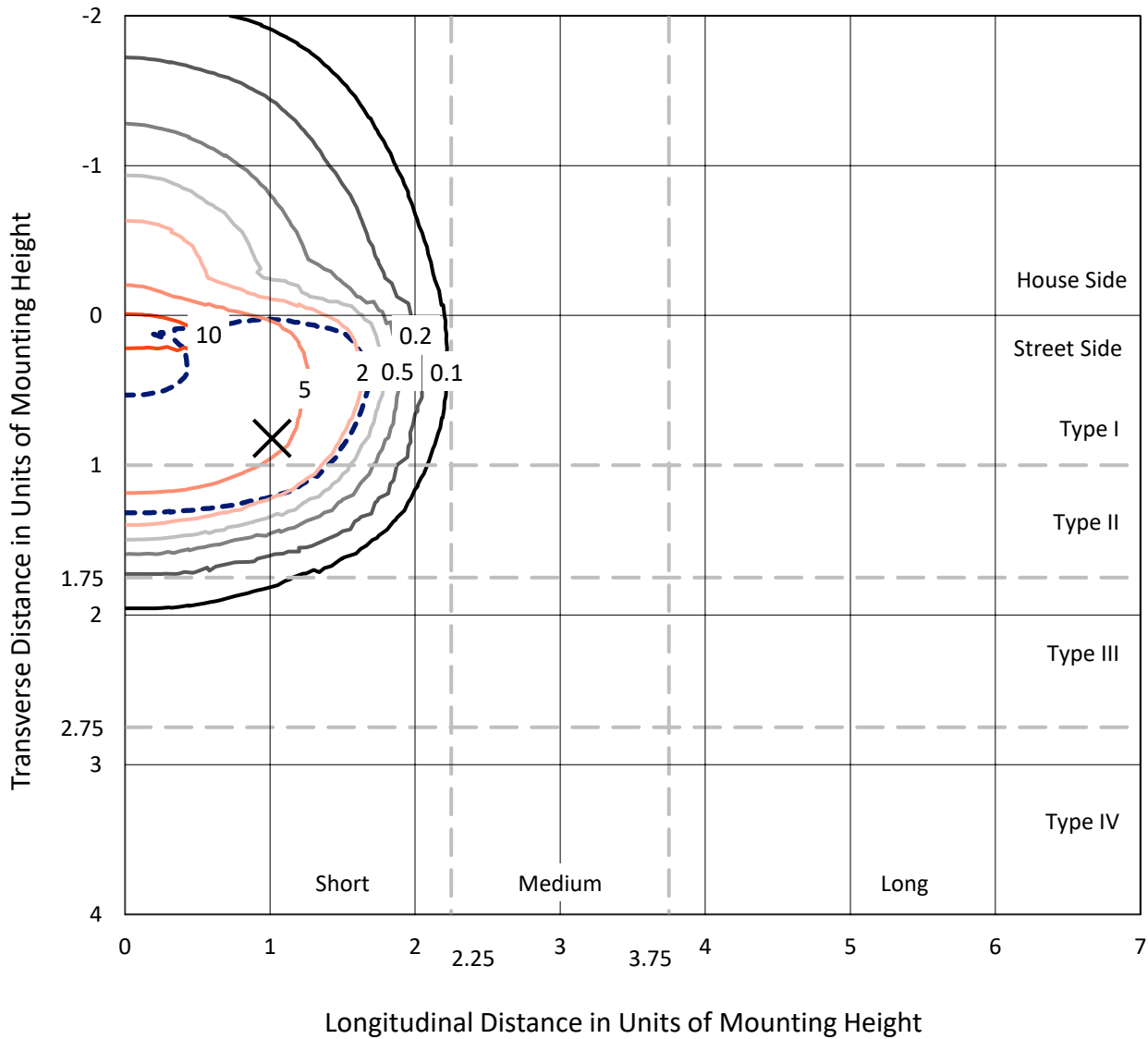
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

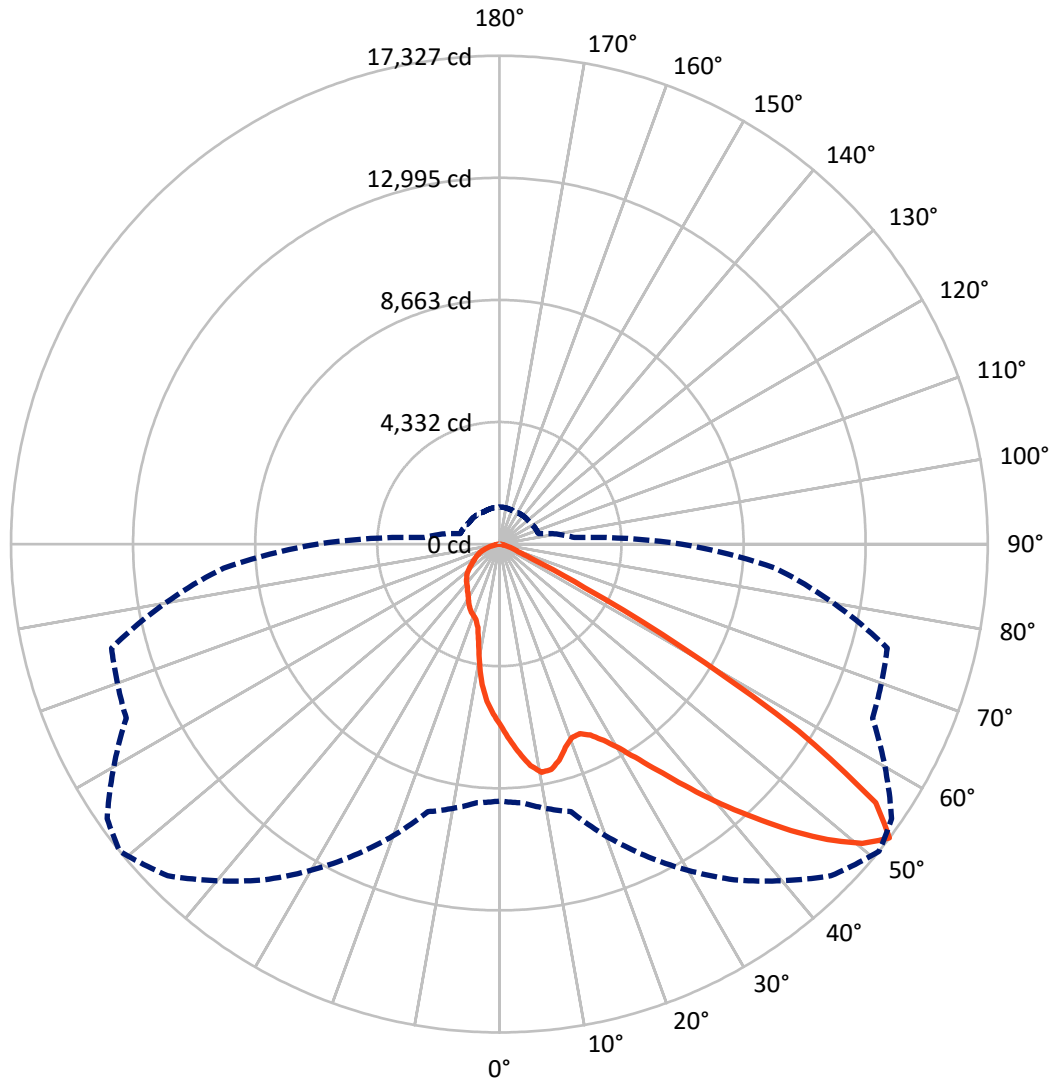
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	4218.2	0.0	4218.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17431.3	0.0	17431.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	21649.6	0.0	21649.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.5	2.8
10°-20°	1563.0	7.2
20°-30°	2541.3	11.7
30°-40°	4027.4	18.6
40°-50°	6074.1	28.1
50°-60°	5254.6	24.3
60°-70°	1191.3	5.5
70°-80°	351.3	1.6
80°-90°	45.2	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°	21649.6	100.0
0°-180°	21649.6	100.0

Coefficient of Utilization



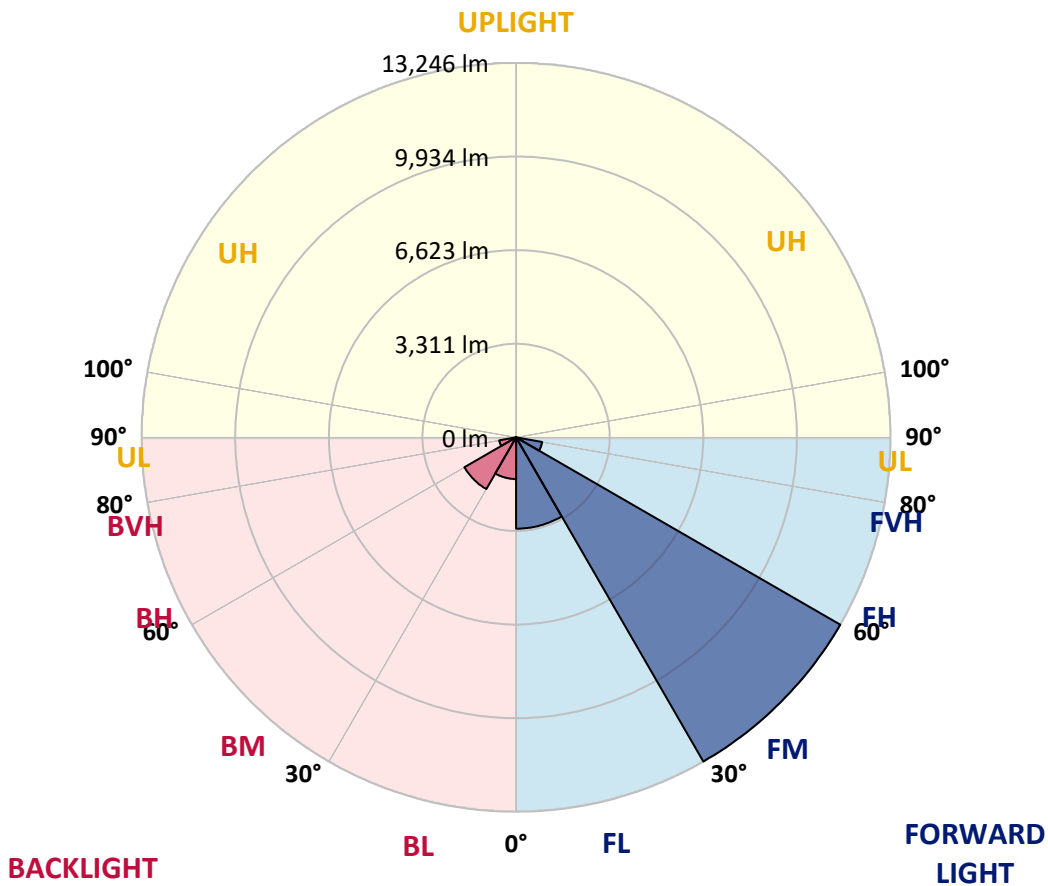
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3231.3	14.9			
FM (30°-60°)	13245.5	61.2			
FH (60°-80°)	937.5	4.3			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1474.5	6.8	B3/2500		
BM (30°-60°)	2110.5	9.7	B2/2500		
BH (60°-80°)	605.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.2	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°	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2
2.5°	7183.5	7224.6	7161.3	7137.3	7098.0	7029.5	6950.8	6928.6	6759.2	6648.0	6523.2
5°	7905.4	7927.7	7876.4	7825.0	7727.5	7606.1	7453.8	7421.3	7113.4	6858.5	6593.3
7.5°	8066.3	8057.7	8102.2	8131.3	8119.3	8071.4	7936.2	7872.9	7505.1	7101.4	6709.6
10°	7429.9	7382.0	7546.2	7741.2	7975.6	8245.9	8230.5	8225.4	7905.4	7428.1	6858.5
12.5°	6586.4	6562.5	6695.9	6940.6	7383.7	7982.4	8206.5	8381.0	8266.4	7739.5	7024.4
15°	6104.0	6095.5	6186.1	6362.3	6714.8	7470.9	7949.9	8295.5	8576.1	8073.1	7200.6
17.5°	6016.8	6021.9	6052.7	6153.6	6406.8	7029.5	7583.8	8066.3	8817.3	8439.2	7421.3
20°	6271.7	6305.9	6252.8	6268.2	6405.1	6870.4	7334.1	7835.3	8971.3	8807.0	7659.1
22.5°	6837.9	6826.0	6709.6	6641.2	6642.9	6967.9	7306.7	7727.5	9072.2	9164.6	7874.7
25°	7479.5	7465.8	7327.2	7175.0	7079.1	7233.1	7503.4	7842.2	9162.9	9491.3	8047.4
27.5°	8237.3	8194.6	8040.6	7845.6	7633.4	7700.2	7883.2	8151.8	9303.1	9813.0	8162.1
30°	8971.3	9020.9	8800.2	8569.2	8345.1	8304.1	8410.1	8653.1	9588.8	10189.3	8298.9
32.5°	9944.7	9927.6	9682.9	9381.8	9061.9	9031.1	9115.0	9337.4	10102.1	10709.4	8507.6
35°	11123.4	11126.8	10779.5	10372.4	9917.3	9835.2	9975.5	10191.0	10866.8	11414.2	8837.8
37.5°	12348.3	12343.2	12040.4	11578.5	10957.5	10841.1	11001.9	11162.7	11823.1	12374.0	9351.0
40°	13207.1	13241.3	13099.3	12856.4	12267.9	11983.9	12125.9	12237.1	12863.2	13503.1	10026.8
42.5°	13694.7	13746.0	13776.8	13922.2	13612.6	13309.8	13258.4	13316.6	13792.2	14551.8	10661.5
45°	13799.0	13867.5	14091.6	14630.5	14750.2	14664.7	14497.0	14356.7	14485.1	15296.0	11077.2
47.5°	13338.8	13458.6	13937.6	14880.2	15579.9	15848.5	15662.1	15448.2	14885.4	15487.6	11034.4
50°	11515.2	11655.4	12734.9	14370.4	15698.0	16676.5	16693.7	16377.2	14837.5	14935.0	10497.3
52.5°	9116.7	9212.5	9830.1	12182.4	14539.8	16642.3	17326.6	16987.9	14606.5	14243.8	9824.9
55°	5448.8	5602.8	6179.3	8037.2	11327.0	14750.2	16207.8	16372.0	14493.6	13663.9	9366.4
57.5°	1839.1	1914.3	2465.2	3549.8	6675.4	10800.1	12522.8	13190.0	13157.5	12777.7	8471.7
60°	875.9	893.0	1004.2	1346.4	2672.2	5643.8	7412.7	8182.6	8884.0	8954.1	5270.9
62.5°	667.2	677.5	733.9	807.5	1074.4	2378.0	3397.6	3986.1	4258.1	3654.2	1919.5
65°	557.7	566.3	609.0	655.2	730.5	1029.9	1303.6	1503.8	1354.9	1055.5	915.3
67.5°	465.3	472.2	504.7	554.3	605.6	689.4	723.7	744.2	780.1	875.9	841.7
70°	364.4	371.2	405.5	448.2	497.8	518.4	550.9	571.4	643.2	766.4	763.0
72.5°	280.6	289.1	307.9	335.3	376.4	396.9	432.8	456.8	497.8	597.1	638.1
75°	205.3	210.4	227.5	236.1	241.2	236.1	272.0	299.4	354.1	391.8	402.0
77.5°	83.8	94.1	90.7	90.7	107.8	130.0	148.8	165.9	203.6	225.8	227.5
80°	34.2	37.6	44.5	49.6	59.9	77.0	89.0	95.8	112.9	126.6	136.9
82.5°	20.5	22.2	25.7	27.4	34.2	44.5	51.3	56.5	70.1	83.8	89.0
85°	10.3	10.3	12.0	13.7	17.1	20.5	24.0	27.4	35.9	44.5	49.6
87.5°	1.7	1.7	1.7	3.4	5.1	6.8	8.6	10.3	12.0	13.7	17.1
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°	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2	6446.2
2.5°	6449.6	6357.2	6249.4	6163.9	6064.7	5991.1	5886.7	5821.7	5760.1	5708.8	5671.2
5°	6456.4	6300.8	6076.6	5878.2	5672.9	5477.9	5277.7	5115.2	4969.8	4848.3	4838.0
7.5°	6495.8	6271.7	5921.0	5573.7	5173.4	4786.7	4400.1	4085.3	3845.8	3720.9	3695.3
10°	6562.5	6268.2	5761.9	5207.6	4525.0	3902.3	3443.8	3204.3	3065.7	3016.1	2999.0
12.5°	6632.6	6259.7	5558.3	4690.9	3743.2	3197.4	2945.9	2916.9	2942.5	2945.9	2944.2
15°	6718.2	6254.6	5301.7	4085.3	3171.8	2870.7	2887.8	2949.4	3009.2	3022.9	3022.9
17.5°	6822.5	6242.6	4952.7	3493.4	2814.2	2807.4	2898.0	2980.2	3036.6	3046.9	3046.9
20°	6932.0	6211.8	4523.3	3010.9	2668.8	2768.0	2865.5	2928.8	2968.2	2981.9	2983.6
22.5°	7007.3	6129.7	4028.9	2653.4	2578.1	2692.7	2762.9	2827.9	2827.9	2793.7	2783.4
25°	7022.7	5953.5	3493.4	2408.8	2470.3	2576.4	2648.3	2610.6	2540.5	2513.1	2511.4
27.5°	6966.2	5696.9	2964.8	2234.3	2340.3	2446.4	2434.4	2379.7	2348.9	2321.5	2331.8
30°	6897.8	5388.9	2506.3	2090.6	2189.8	2294.1	2253.1	2234.3	2212.0	2181.2	2188.1
32.5°	6851.6	5045.0	2153.9	1979.4	2088.8	2106.0	2135.0	2133.3	2112.8	2054.6	2051.2
35°	6865.3	4697.8	1917.8	1888.7	2005.0	1998.2	2052.9	2042.7	1900.7	1820.3	1815.1
37.5°	6974.8	4364.2	1779.2	1816.8	1871.6	1914.3	1962.2	1839.1	1789.5	1738.1	1741.6
40°	7183.5	4054.5	1703.9	1777.5	1791.2	1854.5	1743.3	1741.6	1719.3	1673.1	1671.4
42.5°	7419.6	3792.8	1652.6	1758.7	1739.8	1751.8	1633.8	1647.5	1645.8	1616.7	1608.1
45°	7563.3	3551.6	1611.5	1688.5	1693.7	1573.9	1538.0	1553.4	1561.9	1546.5	1544.8
47.5°	7414.5	3274.4	1568.8	1580.7	1625.2	1493.5	1449.0	1450.7	1466.1	1467.8	1461.0
50°	6997.0	2964.8	1517.4	1488.4	1459.3	1409.7	1368.6	1360.1	1375.5	1390.9	1396.0
52.5°	6458.1	2668.8	1431.9	1387.4	1319.0	1319.0	1300.2	1272.8	1293.3	1313.9	1320.7
55°	6063.0	2449.8	1310.4	1260.8	1185.6	1211.2	1207.8	1183.9	1211.2	1226.6	1231.8
57.5°	5253.8	1969.1	1153.1	1137.7	1074.4	1105.2	1112.0	1081.2	1067.5	1070.9	1076.1
60°	3118.7	1271.1	1040.1	1038.4	982.0	1017.9	1038.4	1007.6	966.6	971.7	978.6
62.5°	1399.4	971.7	898.2	891.3	889.6	935.8	958.0	928.9	870.8	875.9	882.8
65°	881.0	840.0	780.1	780.1	807.5	846.8	863.9	840.0	773.3	764.7	771.6
67.5°	817.7	781.8	720.2	708.3	721.9	754.4	756.2	710.0	670.6	663.8	663.8
70°	733.9	706.5	646.7	622.7	617.6	615.9	610.7	598.8	573.1	566.3	569.7
72.5°	607.3	588.5	550.9	525.2	511.5	509.8	489.3	479.0	456.8	453.4	451.6
75°	402.0	407.2	407.2	403.7	391.8	386.6	364.4	354.1	328.5	318.2	316.5
77.5°	237.8	242.9	249.8	251.5	249.8	249.8	229.2	217.3	191.6	177.9	174.5
80°	145.4	148.8	152.3	157.4	150.5	145.4	126.6	114.6	102.6	94.1	92.4
82.5°	94.1	97.5	99.2	102.6	99.2	92.4	77.0	70.1	61.6	54.7	53.0
85°	53.0	54.7	58.2	58.2	53.0	47.9	39.3	34.2	29.1	25.7	25.7
87.5°	18.8	18.8	18.8	20.5	17.1	15.4	10.3	6.8	5.1	5.1	5.1
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)