

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: P638525

Luminaire Tested: GWS-SA4F-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21346 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

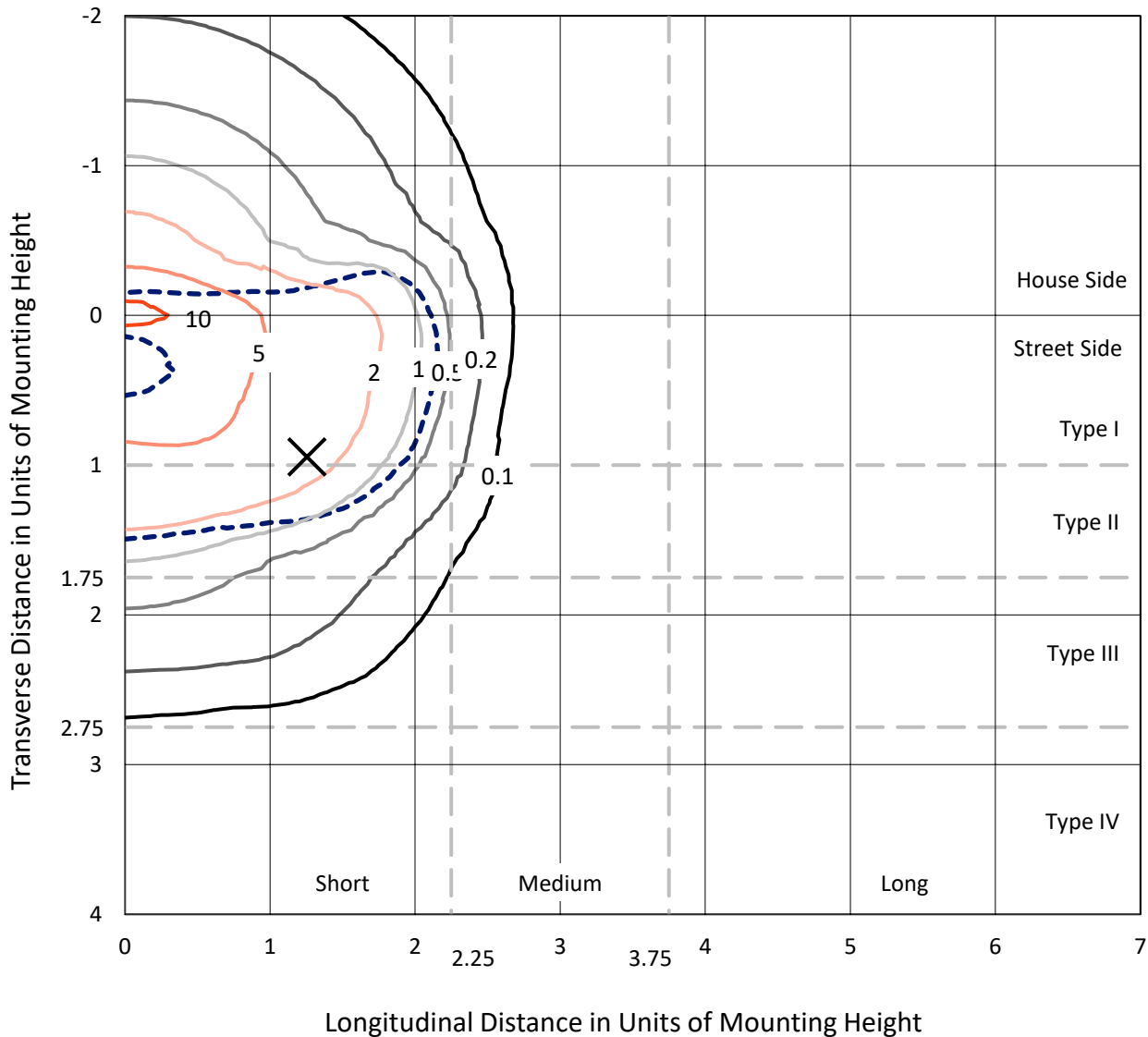
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

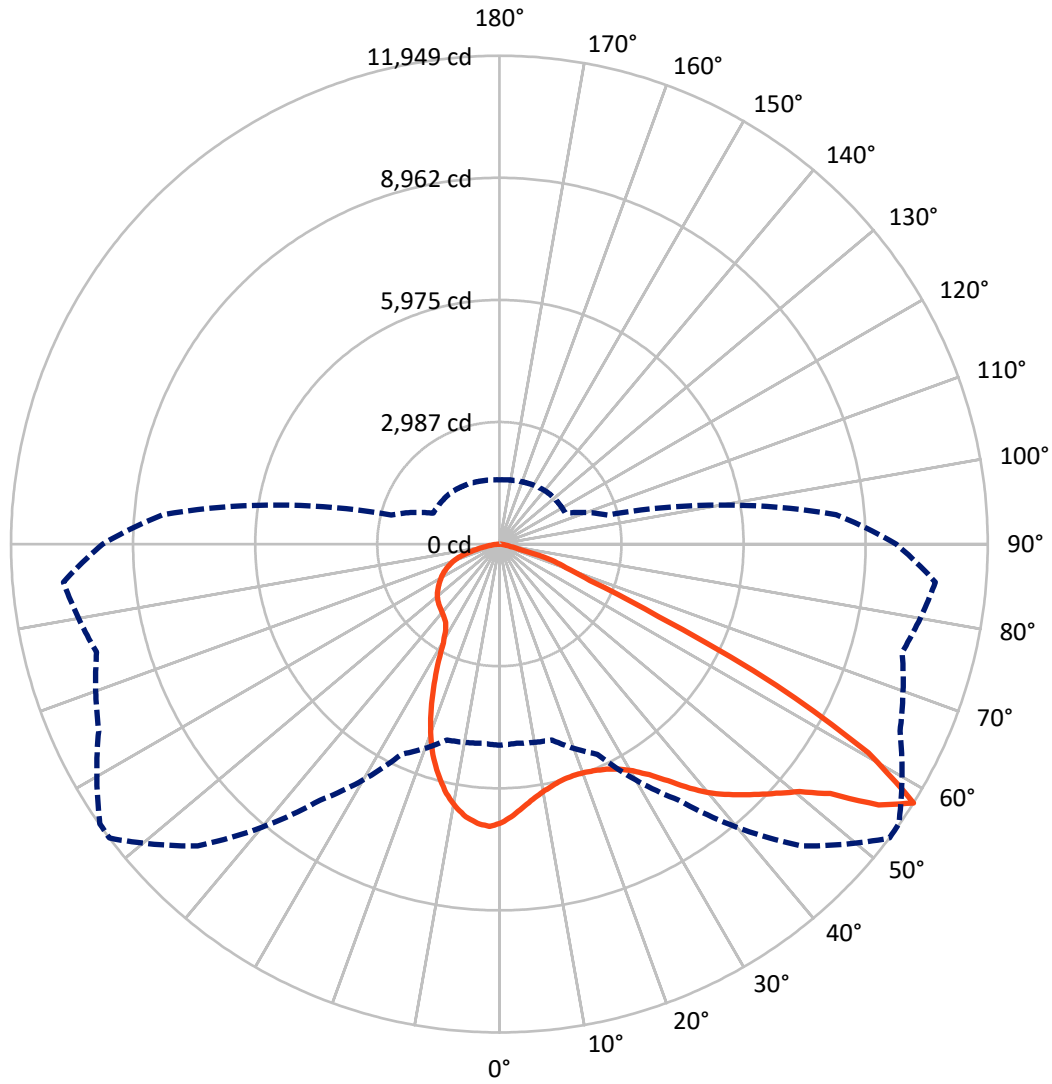
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6674.1	0.0	6674.1
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	14671.9	0.0	14671.9
	% Fixture	68.7	0.0	68.7
Total	Lumens	21346.0	0.0	21346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.4	2.9
10°-20°	1617.2	7.6
20°-30°	2382.6	11.2
30°-40°	3335.1	15.6
40°-50°	4384.2	20.5
50°-60°	5140.5	24.1
60°-70°	3028.3	14.2
70°-80°	753.3	3.5
80°-90°	88.4	0.4
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°	21346.0	100.0
0°-180°	21346.0	100.0

Coefficient of Utilization



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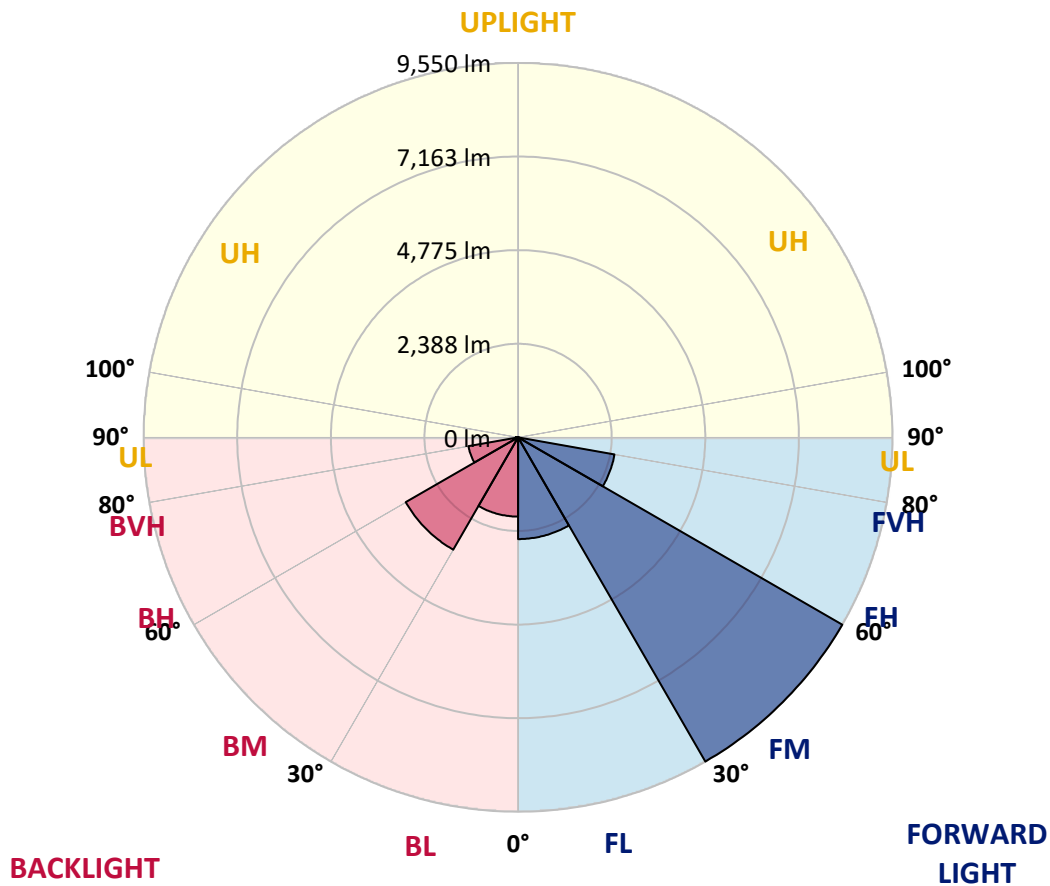
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2595.3	12.2			
FM (30°-60°)	9550.4	44.7			
FH (60°-80°)	2496.7	11.7			G2/5000
FVH (80°-90°)	29.6	0.1			G1/100
BL (0°-30°)	2021.0	9.5	B3/2500		
BM (30°-60°)	3309.4	15.5	B3/5000		
BH (60°-80°)	1285.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	58.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4
2.5°	6424.7	6442.7	6446.3	6501.9	6505.5	6586.4	6640.3	6629.5	6685.2	6753.5	6807.4
5°	6117.5	6119.3	6137.2	6203.7	6239.6	6345.6	6435.5	6435.5	6543.3	6683.4	6803.8
7.5°	5864.1	5862.4	5878.5	5952.2	6011.5	6139.0	6261.2	6275.6	6426.5	6631.3	6827.1
10°	5628.8	5641.4	5659.3	5749.2	5824.6	5982.7	6128.3	6151.6	6342.0	6595.4	6859.5
12.5°	5477.9	5479.7	5506.6	5607.2	5704.3	5873.1	6025.8	6054.6	6273.8	6561.2	6882.8
15°	5380.9	5382.7	5411.4	5522.8	5636.0	5806.7	5963.0	5995.3	6234.3	6555.8	6927.7
17.5°	5337.7	5335.9	5362.9	5474.3	5598.3	5776.1	5943.2	5982.7	6252.2	6597.2	7006.8
20°	5337.7	5339.5	5353.9	5454.5	5580.3	5768.9	5963.0	6011.5	6322.3	6690.6	7129.0
22.5°	5413.2	5420.4	5427.6	5495.8	5594.7	5779.7	6015.1	6079.7	6473.2	6846.9	7288.9
25°	5560.5	5562.3	5569.5	5625.2	5670.1	5810.3	6101.3	6198.3	6708.6	7075.1	7490.1
27.5°	5758.1	5783.3	5790.5	5826.4	5826.4	5885.7	6236.0	6376.2	7026.6	7403.8	7747.0
30°	6034.8	6043.8	6056.4	6095.9	6052.8	6027.6	6433.7	6613.3	7394.9	7800.9	8056.0
32.5°	6277.4	6297.1	6365.4	6430.1	6352.8	6273.8	6724.7	6936.7	7748.8	8214.1	8384.8
35°	6484.0	6532.5	6663.6	6807.4	6753.5	6674.4	7111.0	7332.0	8039.8	8510.6	8675.9
37.5°	6733.7	6771.4	6951.1	7184.7	7233.2	7195.4	7581.7	7739.8	8233.9	8586.0	8834.0
40°	6987.0	7044.5	7276.3	7599.7	7784.7	7811.7	8016.5	8122.5	8300.4	8438.7	8803.4
42.5°	7245.7	7344.6	7662.6	8039.8	8368.6	8429.7	8383.0	8427.9	8278.8	8235.7	8661.5
45°	7561.9	7678.7	8038.1	8519.5	8952.5	9047.7	8742.3	8701.0	8275.2	8158.4	8573.4
47.5°	7935.6	8052.4	8395.6	8956.1	9509.5	9579.5	9110.6	9035.2	8401.0	8277.0	8692.0
50°	8266.2	8347.1	8654.3	9281.3	10028.7	10070.0	9516.7	9425.0	8713.6	8605.8	9062.1
52.5°	7930.3	7921.3	8244.7	9017.2	10298.2	10795.9	10141.9	10053.9	9317.2	9152.0	9635.2
55°	6728.3	6625.9	6915.2	7675.1	9545.4	11440.8	11263.0	11086.9	10122.1	9701.7	10172.4
57.5°	4919.1	4890.4	4960.5	5673.7	7646.4	10441.9	11949.3	11933.1	10817.4	10204.8	10707.8
60°	3846.6	3803.4	3616.6	3636.3	5212.0	8156.6	10370.1	10846.2	11248.6	10506.6	11081.5
62.5°	3415.4	3383.0	3286.0	3018.3	3104.5	5468.9	7601.5	8038.1	9829.3	9279.5	9518.5
65°	2827.9	2818.9	2899.7	2889.0	2601.5	3020.1	4290.3	4730.5	6180.4	6257.6	6180.4
67.5°	2055.3	2039.2	2244.0	2648.2	2504.5	2279.9	2391.3	2544.0	3169.2	2845.8	2562.0
70°	1336.7	1313.3	1431.9	1913.4	2242.2	1987.1	1723.0	1697.8	1742.7	1083.4	1171.4
72.5°	896.5	869.6	867.8	1052.8	1354.6	1338.5	1334.9	1322.3	1180.4	855.2	948.6
75°	499.5	477.9	472.5	454.5	485.1	494.1	526.4	544.4	589.3	648.6	718.6
77.5°	84.4	82.6	104.2	132.9	183.3	235.4	291.1	307.2	379.1	449.2	494.1
80°	46.7	48.5	62.9	77.3	102.4	140.1	179.7	190.4	233.6	271.3	307.2
82.5°	25.2	25.2	32.3	41.3	55.7	73.7	97.0	106.0	134.7	158.1	183.3
85°	9.0	9.0	12.6	16.2	23.4	30.5	37.7	43.1	59.3	80.8	91.6
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	7.2	9.0	16.2	23.4
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°	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4	6816.4
2.5°	6852.3	6803.8	6870.3	6900.8	6911.6	6918.8	6872.0	6839.7	6828.9	6794.8	6775.0
5°	6877.4	6845.1	6908.0	6908.0	6863.1	6816.4	6721.1	6654.7	6607.9	6552.3	6543.3
7.5°	6920.6	6897.2	6931.3	6861.3	6748.1	6622.3	6457.0	6327.7	6223.5	6155.2	6157.0
10°	6978.0	6949.3	6922.4	6766.0	6559.4	6327.7	6074.4	5885.7	5713.2	5634.2	5591.1
12.5°	7015.8	6974.5	6861.3	6602.6	6298.9	5988.1	5630.6	5350.3	5100.6	4987.4	4978.4
15°	7062.5	6987.0	6760.7	6390.6	5968.4	5544.4	5084.4	4694.6	4356.8	4180.7	4171.7
17.5°	7123.6	6999.6	6640.3	6148.0	5619.8	4994.6	4416.1	3925.6	3566.3	3429.7	3453.1
20°	7209.8	7014.0	6503.7	5878.5	5186.8	4369.4	3648.9	3198.0	3059.6	3050.7	3032.7
22.5°	7306.8	7023.0	6352.8	5576.7	4662.2	3702.8	3014.7	2822.5	2820.7	2865.6	2876.4
25°	7416.4	7030.2	6182.1	5224.6	4094.5	3038.1	2666.2	2608.7	2653.6	2738.0	2748.8
27.5°	7556.6	7044.5	5975.5	4838.3	3490.8	2624.9	2473.9	2459.6	2513.5	2592.5	2588.9
30°	7763.2	7096.6	5756.4	4394.5	2871.0	2429.0	2357.2	2359.0	2380.5	2418.2	2423.6
32.5°	7973.4	7177.5	5542.6	3895.1	2515.3	2317.6	2285.3	2281.7	2281.7	2297.9	2301.5
35°	8172.8	7269.1	5310.8	3374.0	2342.8	2253.0	2231.4	2220.6	2215.2	2211.6	2206.2
37.5°	8284.2	7314.0	5084.4	2860.2	2251.2	2209.8	2188.3	2173.9	2154.1	2139.8	2136.2
40°	8235.7	7261.9	4822.1	2475.7	2195.5	2168.5	2143.4	2123.6	2096.6	2084.1	2076.9
42.5°	8074.0	7100.2	4536.5	2294.3	2150.5	2123.6	2093.1	2060.7	2042.8	2032.0	2030.2
45°	7903.3	6904.4	4191.5	2188.3	2107.4	2075.1	2039.2	2003.2	1983.5	1978.1	1976.3
47.5°	7897.9	6807.4	3825.0	2103.8	2055.3	2023.0	1978.1	1942.1	1920.6	1913.4	1906.2
50°	8135.1	6906.2	3411.8	2030.2	2001.4	1967.3	1917.0	1877.5	1850.5	1841.5	1839.7
52.5°	8627.3	7278.1	3041.7	1956.5	1929.6	1890.0	1848.7	1809.2	1776.9	1760.7	1758.9
55°	9159.1	7750.6	2811.7	1881.1	1845.1	1811.0	1773.3	1730.1	1694.2	1669.1	1665.5
57.5°	9708.9	8266.2	2741.6	1785.8	1758.9	1735.5	1690.6	1643.9	1602.6	1579.2	1573.8
60°	10161.7	8710.0	2872.8	1685.2	1670.9	1640.3	1599.0	1554.1	1525.3	1507.4	1503.8
62.5°	8507.0	7091.2	2319.4	1575.6	1575.6	1543.3	1496.6	1464.2	1444.5	1431.9	1428.3
65°	5398.8	4390.9	1582.8	1466.0	1464.2	1421.1	1381.6	1360.0	1351.1	1331.3	1327.7
67.5°	2351.8	2006.8	1352.9	1354.6	1347.5	1300.7	1261.2	1245.1	1227.1	1205.5	1203.7
70°	1219.9	1243.3	1210.9	1230.7	1218.1	1162.4	1124.7	1099.5	1061.8	1040.2	1042.0
72.5°	984.5	1009.7	1045.6	1076.2	1049.2	1004.3	945.0	914.5	866.0	842.6	844.4
75°	751.0	777.9	812.1	844.4	822.8	767.2	729.4	698.9	643.2	616.2	621.6
77.5°	517.4	531.8	573.1	571.3	564.1	548.0	492.3	456.3	398.8	366.5	370.1
80°	321.6	330.6	350.3	359.3	355.7	334.2	289.3	262.3	228.2	208.4	210.2
82.5°	194.0	199.4	217.4	219.2	217.4	201.2	167.1	147.3	125.8	115.0	115.0
85°	98.8	102.4	113.2	113.2	102.4	86.2	77.3	68.3	55.7	50.3	50.3
87.5°	26.9	26.9	34.1	28.7	23.4	21.6	10.8	9.0	3.6	1.8	1.8
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)