

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: P640663

Luminaire Tested: GWS-SA5E-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640663
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-SA5E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33590.1 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

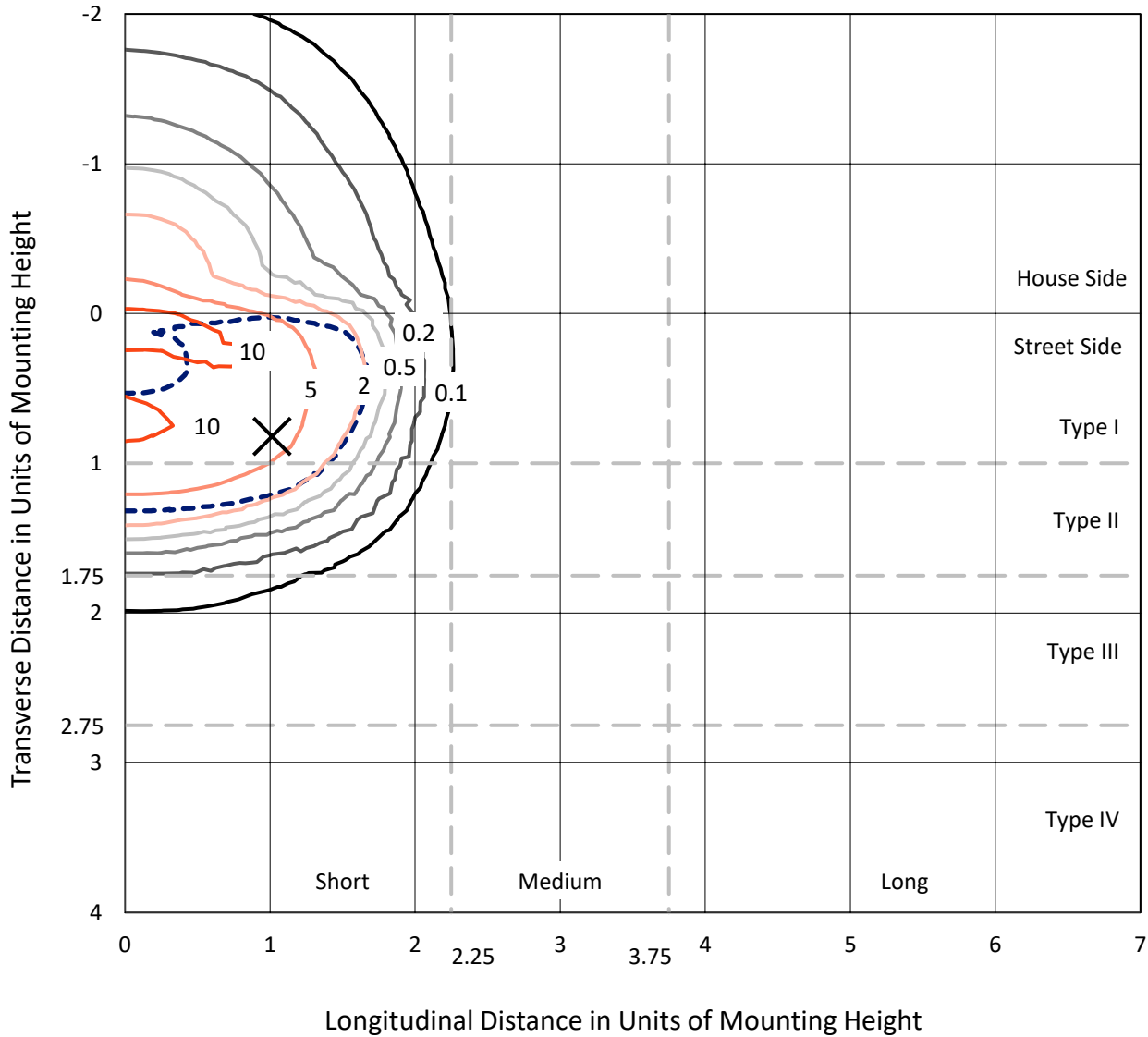
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

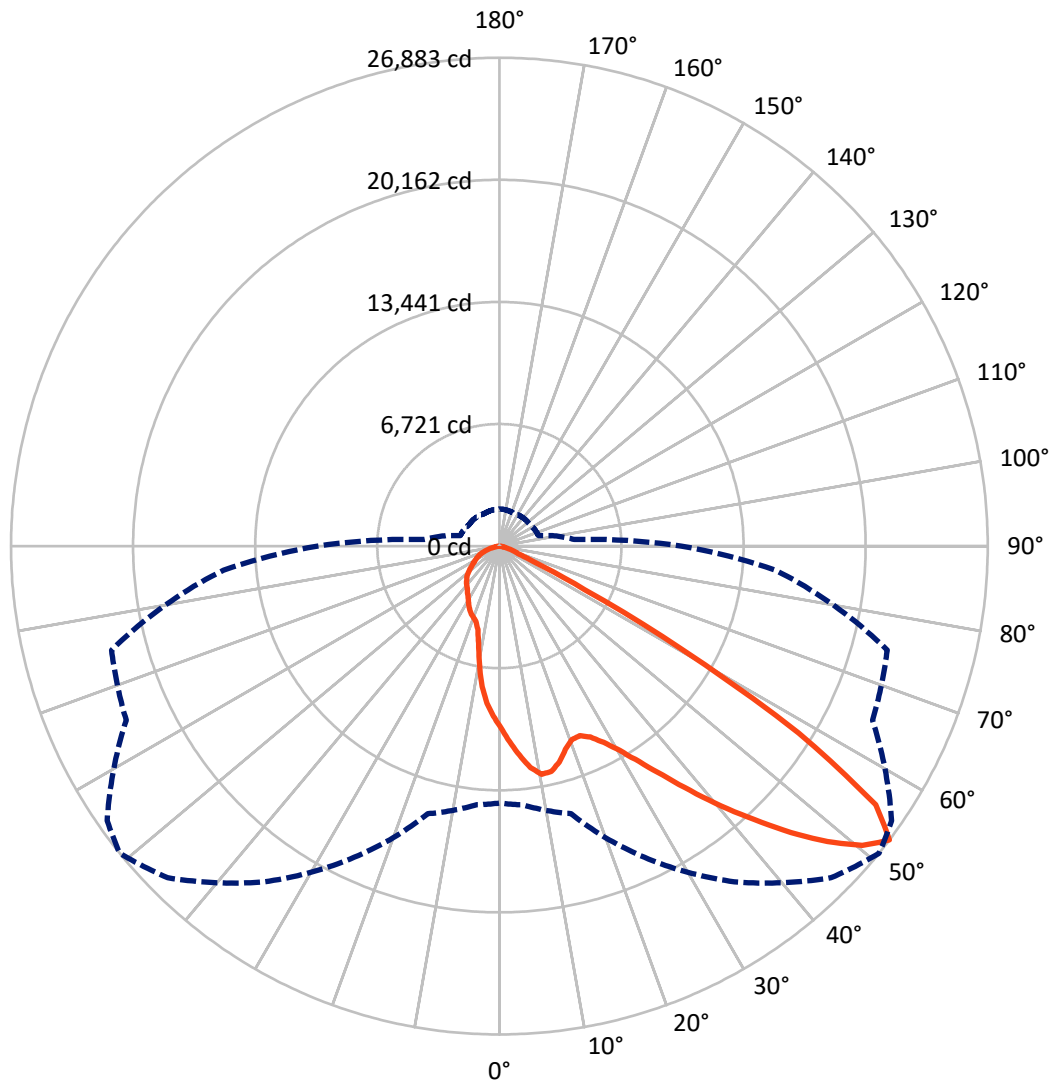
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 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	6544.8	0.0	6544.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	27045.3	0.0	27045.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	33590.1	0.0	33590.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.3	2.8
10°-20°	2425.0	7.2
20°-30°	3942.9	11.7
30°-40°	6248.6	18.6
40°-50°	9424.2	28.1
50°-60°	8152.7	24.3
60°-70°	1848.3	5.5
70°-80°	545.0	1.6
80°-90°	70.2	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°	33590.1	100.0
0°-180°	33590.1	100.0

Coefficient of Utilization



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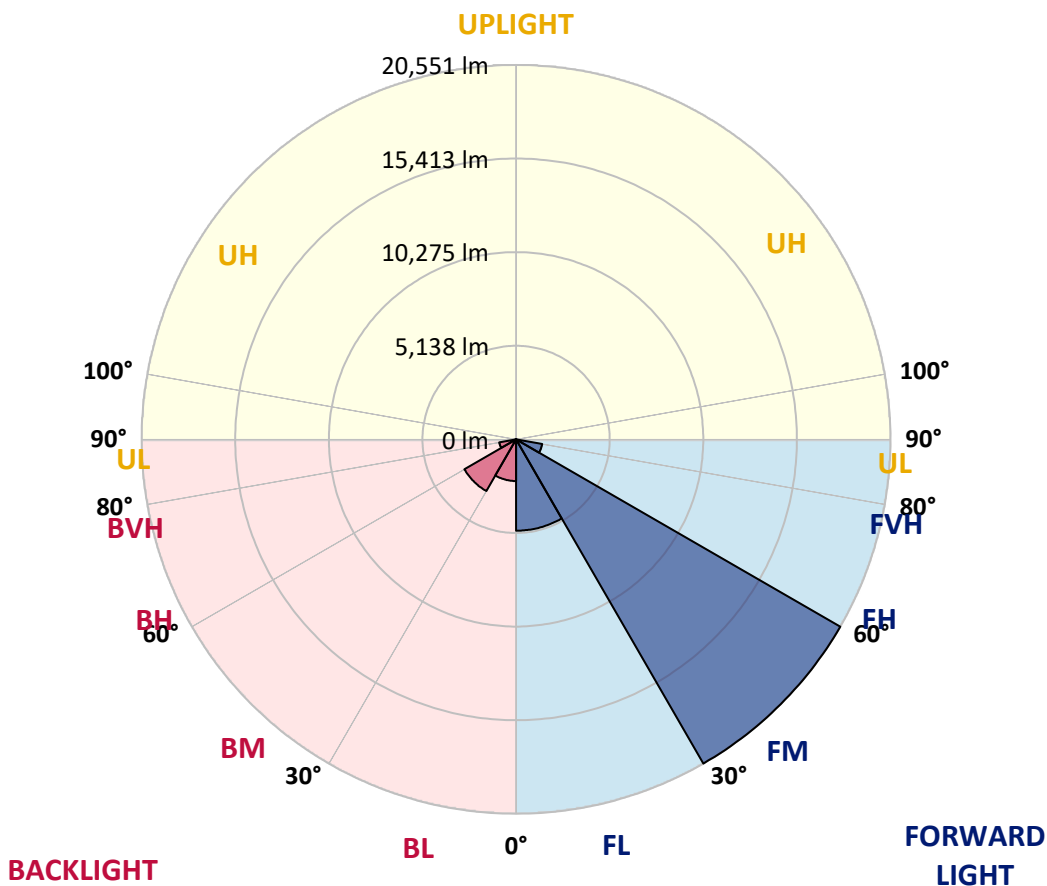
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5013.4	14.9			
FM (30°-60°)	20550.9	61.2			
FH (60°-80°)	1454.6	4.3			G1/1800
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	2287.8	6.8	B3/2500		
BM (30°-60°)	3274.6	9.7	B3/5000		
BH (60°-80°)	938.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	43.7	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°	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4
2.5°	11145.5	11209.2	11111.0	11073.8	11012.7	10906.6	10784.5	10750.0	10487.2	10314.7	10120.9
5°	12265.6	12300.1	12220.5	12140.8	11989.5	11801.1	11564.8	11514.4	11036.6	10641.1	10229.7
7.5°	12515.1	12501.8	12570.8	12615.9	12597.4	12523.0	12313.4	12215.1	11644.5	11018.1	10410.2
10°	11527.7	11453.4	11708.2	12010.8	12374.4	12793.8	12769.9	12761.9	12265.6	11525.0	10641.1
12.5°	10219.1	10181.9	10389.0	10768.5	11456.0	12385.0	12732.7	13003.5	12825.6	12008.1	10898.6
15°	9470.6	9457.3	9598.0	9871.4	10418.2	11591.4	12334.6	12870.8	13306.1	12525.7	11172.0
17.5°	9335.2	9343.2	9391.0	9547.6	9940.4	10906.6	11766.6	12515.1	13680.3	13093.7	11514.4
20°	9730.7	9783.8	9701.5	9725.4	9937.7	10659.7	11379.0	12156.8	13919.2	13664.4	11883.4
22.5°	10609.3	10590.7	10410.2	10304.0	10306.7	10811.0	11336.6	11989.5	14075.8	14219.2	12217.8
25°	11604.7	11583.4	11368.4	11132.2	10983.5	11222.4	11641.8	12167.4	14216.5	14726.1	12485.9
27.5°	12780.5	12714.2	12475.3	12172.7	11843.5	11947.1	12231.1	12647.8	14434.2	15225.1	12663.7
30°	13919.2	13996.2	13653.8	13295.5	12947.7	12884.0	13048.6	13425.5	14877.4	15809.1	12876.1
32.5°	15429.5	15403.0	15023.4	14556.2	14059.9	14012.1	14142.2	14487.2	15673.7	16616.0	13199.9
35°	17258.3	17263.6	16724.8	16093.1	15387.0	15259.6	15477.3	15811.7	16860.2	17709.6	13712.2
37.5°	19158.8	19150.9	18681.0	17964.4	17000.9	16820.4	17069.9	17319.4	18344.0	19198.6	14508.5
40°	20491.3	20544.4	20324.1	19947.2	19034.1	18593.5	18813.8	18986.3	19957.8	20950.5	15556.9
42.5°	21247.8	21327.4	21375.2	21600.8	21120.4	20650.5	20570.9	20661.2	21399.1	22577.6	16541.7
45°	21409.7	21515.9	21863.6	22699.7	22885.5	22752.8	22492.6	22275.0	22474.1	23732.2	17186.7
47.5°	20695.7	20881.5	21624.7	23087.2	24172.8	24589.5	24300.2	23968.4	23095.2	24029.5	17120.3
50°	17866.2	18083.8	19758.7	22296.2	24356.0	25874.2	25900.8	25409.7	23020.9	23172.1	16286.9
52.5°	14144.8	14293.5	15251.7	18901.4	22559.0	25821.1	26882.9	26357.3	22662.5	22099.8	15243.7
55°	8454.0	8692.9	9587.4	12470.0	17574.2	22885.5	25147.0	25401.8	22487.3	21200.0	14532.4
57.5°	2853.4	2970.2	3824.9	5507.7	10357.1	16756.7	19429.6	20464.7	20414.3	19825.1	13144.2
60°	1359.0	1385.6	1558.1	2088.9	4146.0	8756.6	11501.1	12695.6	13783.8	13892.7	8177.9
62.5°	1035.2	1051.1	1138.7	1252.8	1666.9	3689.5	5271.5	6184.5	6606.6	5669.6	2978.1
65°	865.3	878.6	944.9	1016.6	1133.4	1597.9	2022.6	2333.1	2102.2	1637.7	1420.1
67.5°	722.0	732.6	783.0	860.0	939.6	1069.7	1122.8	1154.6	1210.4	1359.0	1305.9
70°	565.4	576.0	629.1	695.4	772.4	804.3	854.7	886.5	998.0	1189.1	1183.8
72.5°	435.3	448.6	477.8	520.2	583.9	615.8	671.5	708.7	772.4	926.4	990.1
75°	318.5	326.5	353.0	366.3	374.3	366.3	422.0	464.5	549.4	607.8	623.8
77.5°	130.1	146.0	140.7	140.7	167.2	201.7	230.9	257.5	315.9	350.4	353.0
80°	53.1	58.4	69.0	77.0	92.9	119.4	138.0	148.6	175.2	196.4	212.3
82.5°	31.9	34.5	39.8	42.5	53.1	69.0	79.6	87.6	108.8	130.1	138.0
85°	15.9	15.9	18.6	21.2	26.5	31.9	37.2	42.5	55.7	69.0	77.0
87.5°	2.7	2.7	2.7	5.3	8.0	10.6	13.3	15.9	18.6	21.2	26.5
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°	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4	10001.4
2.5°	10006.8	9863.4	9696.2	9563.5	9409.5	9295.4	9133.5	9032.6	8937.1	8857.4	8799.0
5°	10017.4	9775.8	9428.1	9120.2	8801.7	8499.1	8188.6	7936.4	7710.8	7522.3	7506.4
7.5°	10078.4	9730.7	9186.6	8647.7	8026.6	7426.8	6826.9	6338.5	5966.9	5773.1	5733.3
10°	10181.9	9725.4	8939.7	8079.7	7020.7	6054.5	5343.1	4971.5	4756.5	4679.6	4653.0
12.5°	10290.8	9712.1	8623.9	7278.1	5807.6	4960.9	4570.7	4525.6	4565.4	4570.7	4568.1
15°	10423.5	9704.2	8225.7	6338.5	4921.1	4453.9	4480.5	4576.0	4668.9	4690.2	4690.2
17.5°	10585.4	9685.6	7684.2	5420.1	4366.3	4355.7	4496.4	4623.8	4711.4	4727.3	4727.3
20°	10755.3	9637.8	7018.0	4671.6	4140.7	4294.7	4446.0	4544.2	4605.2	4626.5	4629.1
22.5°	10872.1	9510.4	6250.9	4116.8	4000.0	4177.9	4286.7	4387.6	4387.6	4334.5	4318.6
25°	10896.0	9237.0	5420.1	3737.3	3832.8	3997.4	4108.9	4050.5	3941.7	3899.2	3896.5
27.5°	10808.4	8838.9	4599.9	3466.5	3631.1	3795.7	3777.1	3692.1	3644.4	3601.9	3617.8
30°	10702.2	8361.1	3888.6	3243.6	3397.5	3559.4	3495.7	3466.5	3432.0	3384.2	3394.9
32.5°	10630.5	7827.6	3341.8	3071.0	3240.9	3267.5	3312.6	3309.9	3278.1	3187.8	3182.5
35°	10651.8	7288.7	2975.5	2930.4	3110.9	3100.2	3185.2	3169.2	2948.9	2824.2	2816.2
37.5°	10821.6	6771.2	2760.5	2818.9	2903.8	2970.2	3044.5	2853.4	2776.4	2696.8	2702.1
40°	11145.5	6290.7	2643.7	2757.8	2779.1	2877.3	2704.7	2702.1	2667.6	2595.9	2593.3
42.5°	11511.8	5884.6	2564.1	2728.6	2699.4	2718.0	2534.9	2556.1	2553.4	2508.3	2495.1
45°	11734.7	5510.4	2500.4	2619.8	2627.8	2442.0	2386.2	2410.1	2423.4	2399.5	2396.8
47.5°	11503.8	5080.4	2434.0	2452.6	2521.6	2317.2	2248.2	2250.9	2274.7	2277.4	2266.8
50°	10856.1	4599.9	2354.4	2309.3	2264.1	2187.2	2123.4	2110.2	2134.1	2158.0	2165.9
52.5°	10020.0	4140.7	2221.7	2152.6	2046.5	2046.5	2017.3	1974.8	2006.7	2038.5	2049.1
55°	9406.9	3801.0	2033.2	1956.2	1839.4	1879.3	1873.9	1836.8	1879.3	1903.1	1911.1
57.5°	8151.4	3055.1	1789.0	1765.1	1666.9	1714.7	1725.3	1677.5	1656.3	1661.6	1669.6
60°	4838.8	1972.2	1613.8	1611.2	1523.6	1579.3	1611.2	1563.4	1499.7	1507.6	1518.3
62.5°	2171.2	1507.6	1393.5	1382.9	1380.2	1451.9	1486.4	1441.3	1351.0	1359.0	1369.6
65°	1367.0	1303.3	1210.4	1210.4	1252.8	1313.9	1340.4	1303.3	1199.7	1186.5	1197.1
67.5°	1268.8	1213.0	1117.5	1098.9	1120.1	1170.6	1173.2	1101.5	1040.5	1029.9	1029.9
70°	1138.7	1096.2	1003.3	966.2	958.2	955.6	947.6	929.0	889.2	878.6	883.9
72.5°	942.3	913.1	854.7	814.9	793.6	791.0	759.1	743.2	708.7	703.4	700.7
75°	623.8	631.7	631.7	626.4	607.8	599.9	565.4	549.4	509.6	493.7	491.0
77.5°	368.9	376.9	387.5	390.2	387.5	387.5	355.7	337.1	297.3	276.0	270.7
80°	225.6	230.9	236.2	244.2	233.6	225.6	196.4	177.8	159.3	146.0	143.3
82.5°	146.0	151.3	154.0	159.3	154.0	143.3	119.4	108.8	95.6	84.9	82.3
85°	82.3	84.9	90.2	90.2	82.3	74.3	61.0	53.1	45.1	39.8	39.8
87.5°	29.2	29.2	29.2	31.9	26.5	23.9	15.9	10.6	8.0	8.0	8.0
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)