

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: P640688

Luminaire Tested: GWS-SA5E-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21993.5 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

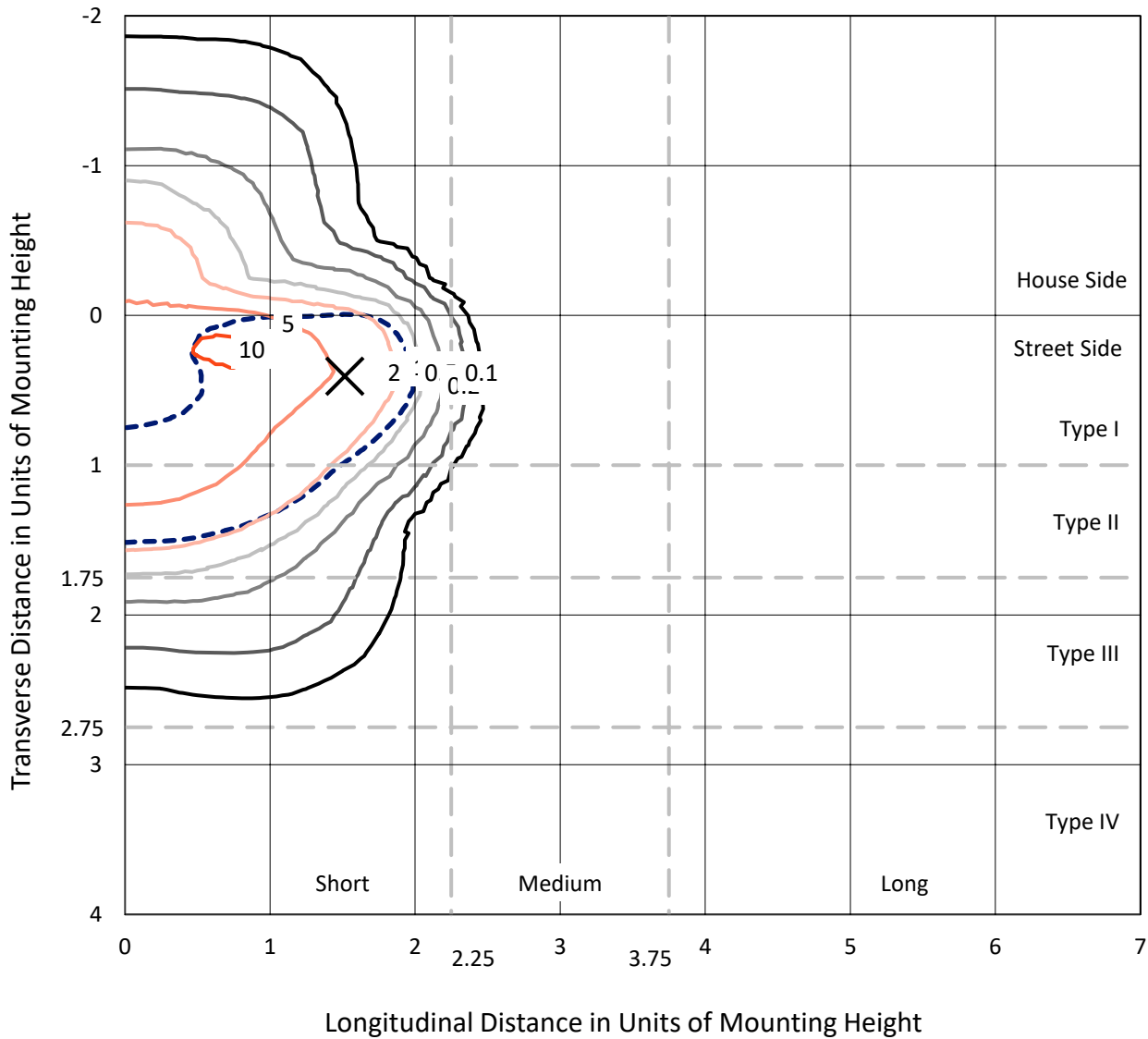
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

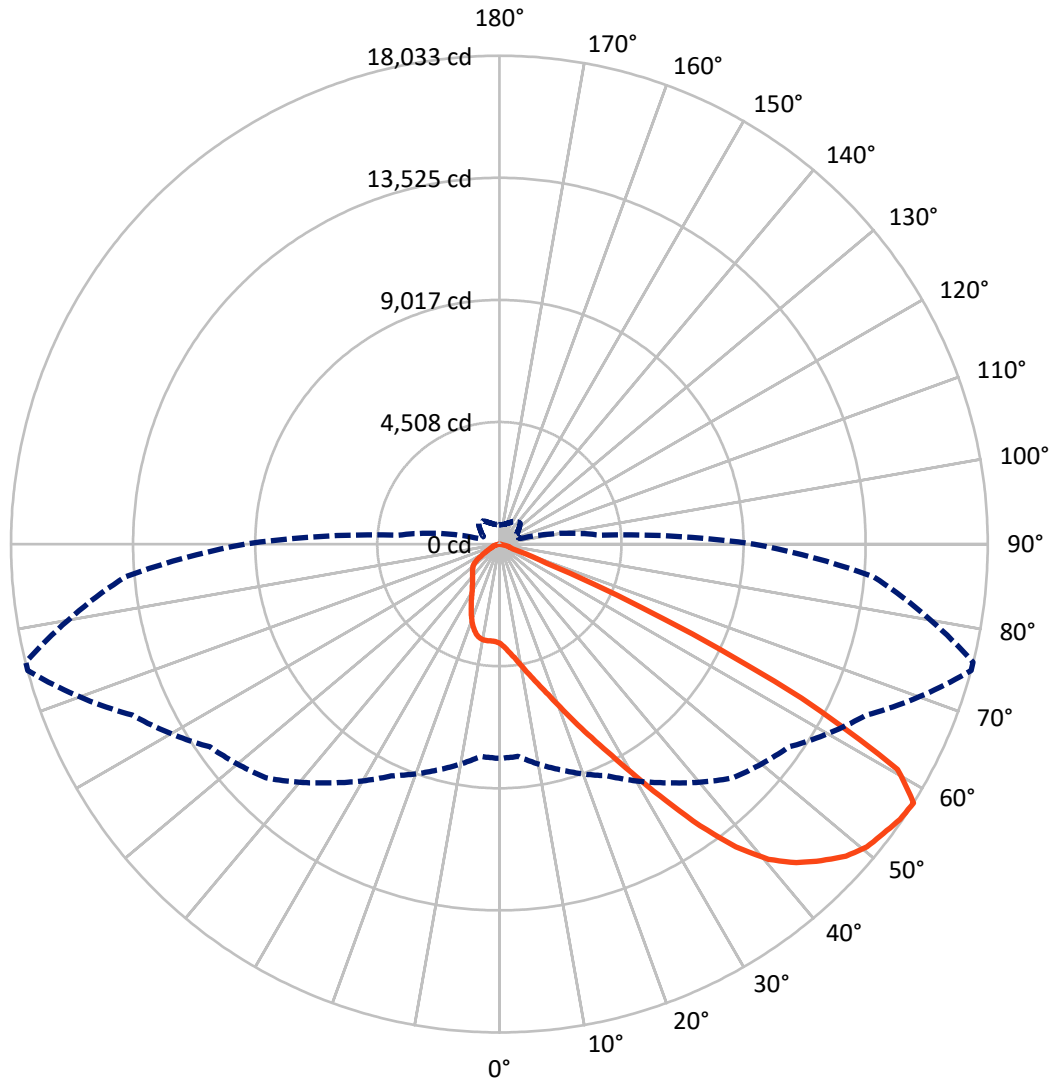
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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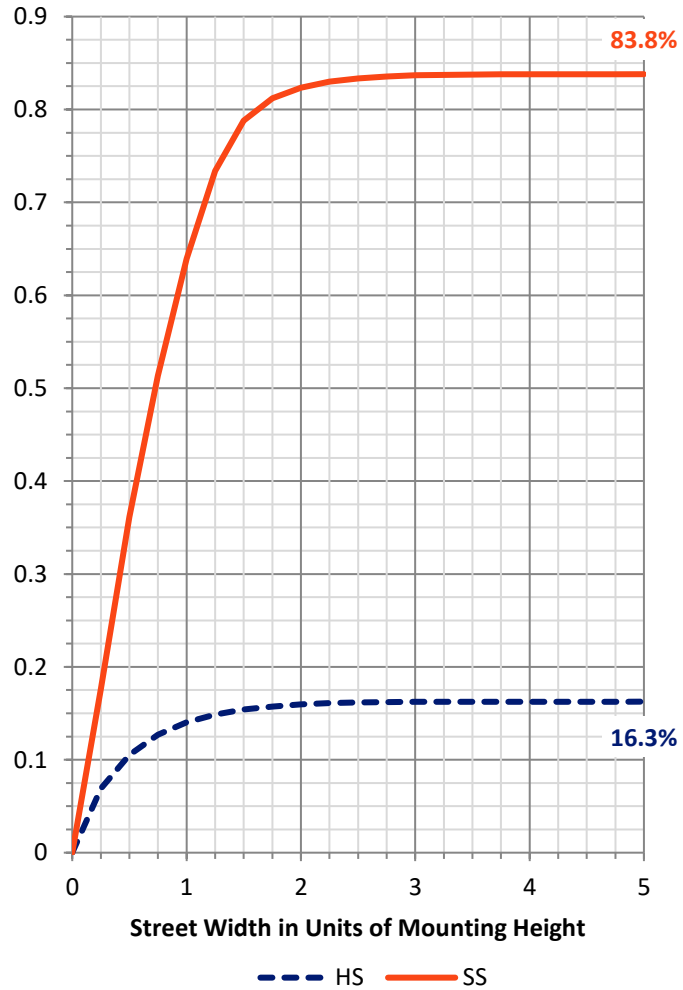
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3592.6	0.0	3592.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	18400.9	0.0	18400.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	21993.5	0.0	21993.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	1.7
10°-20°	1212.5	5.5
20°-30°	2220.5	10.1
30°-40°	3683.9	16.8
40°-50°	5626.3	25.6
50°-60°	6322.1	28.7
60°-70°	2331.9	10.6
70°-80°	222.9	1.0
80°-90°	0.2	0.0
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°	21993.5	100.0
0°-180°	21993.5	100.0

Coefficient of Utilization



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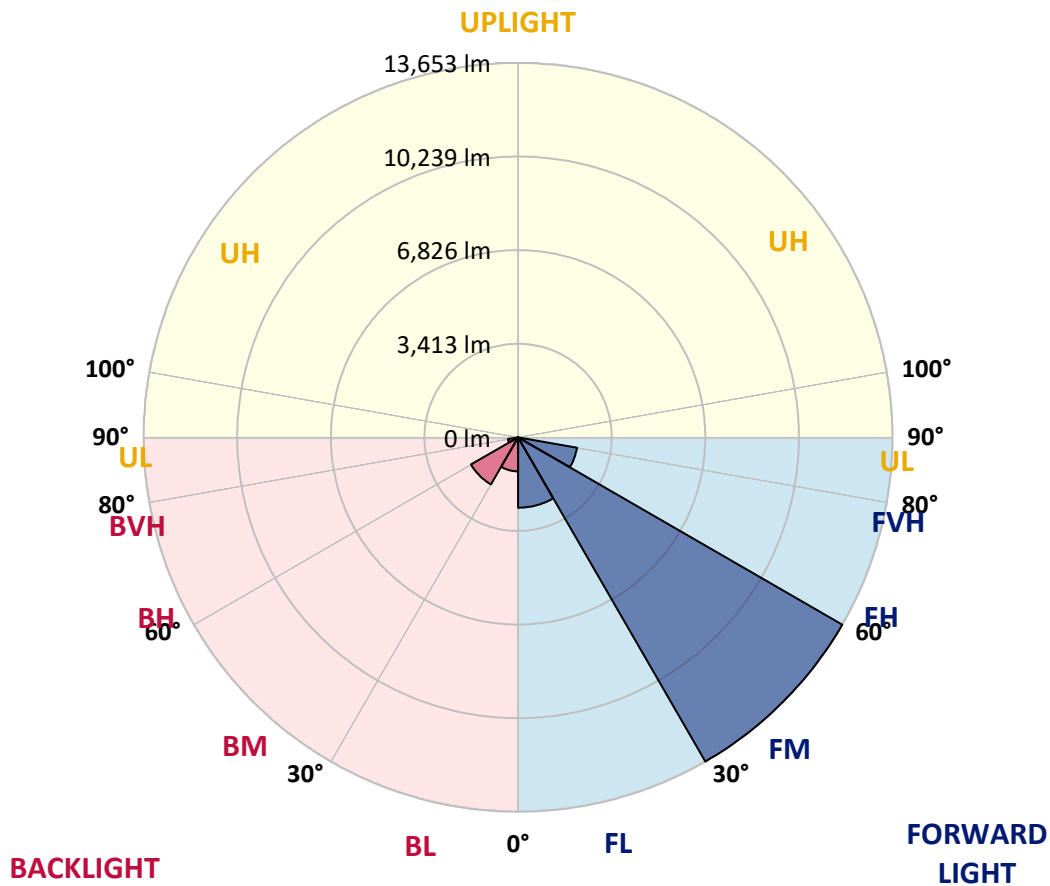
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2566.6	11.7			
FM (30°-60°)	13652.5	62.1			
FH (60°-80°)	2181.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1239.7	5.6	B3/2500		
BM (30°-60°)	1979.8	9.0	B2/2500		
BH (60°-80°)	373.1	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
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°	55°	65°	75°	76°	85°
0°	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2
2.5°	4098.2	4140.7	4127.4	4100.9	4084.9	4029.2	3994.7	3893.8	3822.2	3814.2	3747.8
5°	4615.8	4607.8	4597.2	4565.4	4538.8	4451.2	4347.7	4177.8	4026.5	4008.0	3867.3
7.5°	4899.8	4905.1	4910.4	4905.1	4886.5	4820.2	4706.0	4507.0	4276.0	4260.1	4037.2
10°	5016.6	5027.2	5053.7	5104.2	5149.3	5144.0	5077.6	4873.3	4589.2	4562.7	4262.8
12.5°	5072.3	5085.6	5128.1	5223.6	5345.7	5441.3	5451.9	5268.7	4955.5	4913.1	4530.8
15°	5149.3	5162.6	5215.7	5340.4	5518.2	5706.7	5828.8	5712.0	5361.6	5316.5	4825.5
17.5°	5183.8	5202.4	5279.4	5443.9	5674.8	5964.2	6240.2	6229.6	5842.1	5807.6	5167.9
20°	5250.2	5263.4	5332.4	5510.3	5789.0	6205.7	6670.2	6837.4	6428.7	6378.2	5581.9
22.5°	5459.8	5465.2	5497.0	5608.5	5868.6	6380.9	7108.2	7546.1	7121.4	7055.1	6046.4
25°	5802.2	5799.6	5812.9	5831.4	6022.6	6558.7	7530.2	8345.0	7915.1	7843.4	6572.0
27.5°	6237.5	6237.5	6269.4	6216.3	6293.3	6779.0	7946.9	9263.4	8838.7	8737.9	7148.0
30°	6749.8	6747.2	6821.5	6736.6	6760.4	7126.7	8395.5	10264.1	9953.5	9828.8	7811.5
32.5°	7445.2	7429.3	7514.3	7397.5	7317.8	7652.3	8942.3	11309.9	11288.6	11097.5	8645.0
35°	8323.8	8297.3	8323.8	8209.7	8066.3	8387.5	9658.9	12353.0	12769.7	12568.0	9637.7
37.5°	9197.1	9282.0	9311.2	9114.8	8998.0	9319.2	10521.6	13287.3	14184.5	13974.8	10670.2
40°	10226.9	10200.4	10301.2	10080.9	10006.6	10362.3	11365.6	13982.7	15304.6	15105.5	11588.6
42.5°	10986.0	11033.8	11158.6	11036.5	10978.1	11312.5	12074.3	14388.8	16082.3	15885.8	12244.2
45°	11896.5	11931.0	11978.7	11877.9	11816.8	12146.0	12586.6	14566.7	16674.2	16461.8	12684.8
47.5°	12881.2	12907.7	12907.7	12700.7	12504.3	12639.7	12929.0	14667.5	17218.3	17013.9	13011.3
50°	13587.2	13600.5	13717.3	13571.3	13144.0	12934.3	13085.6	14765.7	17579.3	17388.2	13117.4
52.5°	12960.8	12944.9	13329.8	13632.4	13746.5	13329.8	13356.3	14909.1	17754.5	17589.9	13202.4
55°	10914.4	10887.8	11429.3	12164.5	13170.5	13704.0	13682.8	14994.0	17948.2	17847.4	13510.3
57.5°	7912.4	7867.3	8621.1	9438.6	10757.8	12204.4	13053.7	14946.2	18033.2	18025.2	13868.6
60°	4756.5	4719.3	5430.6	6290.6	7309.9	8764.4	10173.8	13388.2	16897.1	16913.0	12936.9
62.5°	2927.7	2962.2	3604.5	4042.5	4422.0	4860.0	5674.8	9006.0	12517.6	12621.1	9090.9
65°	1969.5	1996.0	2590.6	3142.7	3142.7	2569.3	2205.7	4305.2	6678.2	6503.0	4299.9
67.5°	1321.8	1351.0	1820.8	2465.8	2558.7	1791.6	894.5	1284.7	1860.6	1804.9	1064.4
70°	777.7	809.6	1213.0	1690.8	1863.3	1247.5	597.2	544.1	528.2	512.3	414.1
72.5°	347.7	361.0	618.4	860.0	785.7	525.5	422.0	435.3	411.4	403.4	337.1
75°	106.2	111.5	159.3	185.8	188.5	188.5	254.8	342.4	323.8	326.5	260.1
77.5°	26.5	26.5	42.5	39.8	21.2	18.6	47.8	77.0	79.6	71.7	53.1
80°	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2	3668.2
2.5°	3718.6	3649.6	3604.5	3540.8	3495.7	3447.9	3405.4	3370.9	3352.4	3347.0	3349.7
5°	3803.6	3694.8	3588.6	3466.5	3381.5	3301.9	3238.2	3187.8	3163.9	3155.9	3155.9
7.5°	3933.6	3782.3	3593.9	3402.8	3259.5	3134.7	3060.4	3004.6	2983.4	2978.1	2962.2
10°	4103.5	3896.5	3585.9	3288.6	3086.9	2956.9	2903.8	2887.9	2895.8	2898.5	2895.8
12.5°	4307.9	4015.9	3535.5	3121.4	2903.8	2824.1	2829.5	2871.9	2919.7	2943.6	2948.9
15°	4525.5	4124.7	3421.4	2922.4	2747.2	2744.5	2821.5	2919.7	3012.6	3052.4	3063.0
17.5°	4769.7	4212.3	3246.2	2710.0	2611.8	2688.8	2826.8	2978.1	3102.8	3169.2	3182.5
20°	5037.8	4284.0	3023.2	2510.9	2492.4	2630.4	2821.5	3007.3	3161.2	3235.6	3248.8
22.5°	5316.5	4334.4	2765.8	2327.8	2383.5	2564.0	2771.1	2951.6	3097.5	3182.5	3193.1
25°	5635.0	4339.7	2503.0	2173.9	2282.7	2473.8	2649.0	2797.6	2919.7	2994.0	3002.0
27.5°	5913.7	4276.0	2269.4	2049.1	2189.8	2362.3	2479.1	2561.4	2646.3	2688.8	2691.4
30°	6234.9	4164.6	2049.1	1948.2	2094.2	2224.3	2282.7	2301.3	2309.2	2317.2	2306.6
32.5°	6617.1	4029.2	1884.5	1850.0	1985.4	2073.0	2088.9	2051.8	2006.6	1942.9	1927.0
35°	7086.9	3907.1	1749.2	1754.5	1866.0	1919.0	1905.8	1826.1	1738.6	1661.6	1648.3
37.5°	7596.5	3803.6	1645.7	1661.6	1735.9	1773.1	1733.2	1645.7	1605.8	1539.5	1542.1
40°	8047.8	3718.6	1552.8	1568.7	1603.2	1637.7	1574.0	1515.6	1589.9	1584.6	1589.9
42.5°	8368.9	3647.0	1473.1	1465.2	1489.0	1512.9	1465.2	1436.0	1560.7	1526.2	1544.8
45°	8557.4	3580.6	1406.8	1359.0	1396.1	1438.6	1406.8	1369.6	1412.1	1252.8	1239.5
47.5°	8684.8	3543.5	1348.4	1255.5	1321.8	1396.1	1329.8	1239.5	1178.5	1040.5	1029.9
50°	8698.1	3524.9	1279.4	1149.3	1234.2	1313.9	1236.9	1112.1	1024.6	963.5	955.5
52.5°	8767.1	3562.0	1183.8	1013.9	1106.8	1234.2	1181.2	1056.4	937.0	883.9	873.3
55°	9075.0	3718.6	1024.6	828.1	963.5	1173.2	1136.0	942.3	828.1	796.3	788.3
57.5°	9393.5	3750.5	806.9	655.6	838.8	1085.6	1037.8	867.9	756.5	719.3	711.3
60°	8589.2	3089.6	605.2	541.5	740.5	1003.3	960.8	822.8	692.8	647.6	639.7
62.5°	5643.0	1669.5	480.4	459.2	623.8	849.4	875.9	743.2	618.4	570.7	568.0
65°	2601.2	775.0	368.9	363.6	488.4	676.8	753.8	650.3	522.9	480.4	480.4
67.5°	708.7	384.9	289.3	268.1	331.8	453.9	549.4	485.7	371.6	321.2	318.5
70°	353.0	310.6	260.1	230.9	238.9	281.4	323.8	270.7	188.5	153.9	151.3
72.5°	289.3	254.8	220.3	196.4	180.5	172.5	167.2	135.4	87.6	66.4	63.7
75°	215.0	183.1	156.6	127.4	108.8	100.9	90.2	66.4	37.2	21.2	18.6
77.5°	47.8	45.1	42.5	31.9	29.2	23.9	18.6	13.3	5.3	0.0	0.0
80°	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)