

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: P640127

Luminaire Tested: GWS-SA5D-730-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21554 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

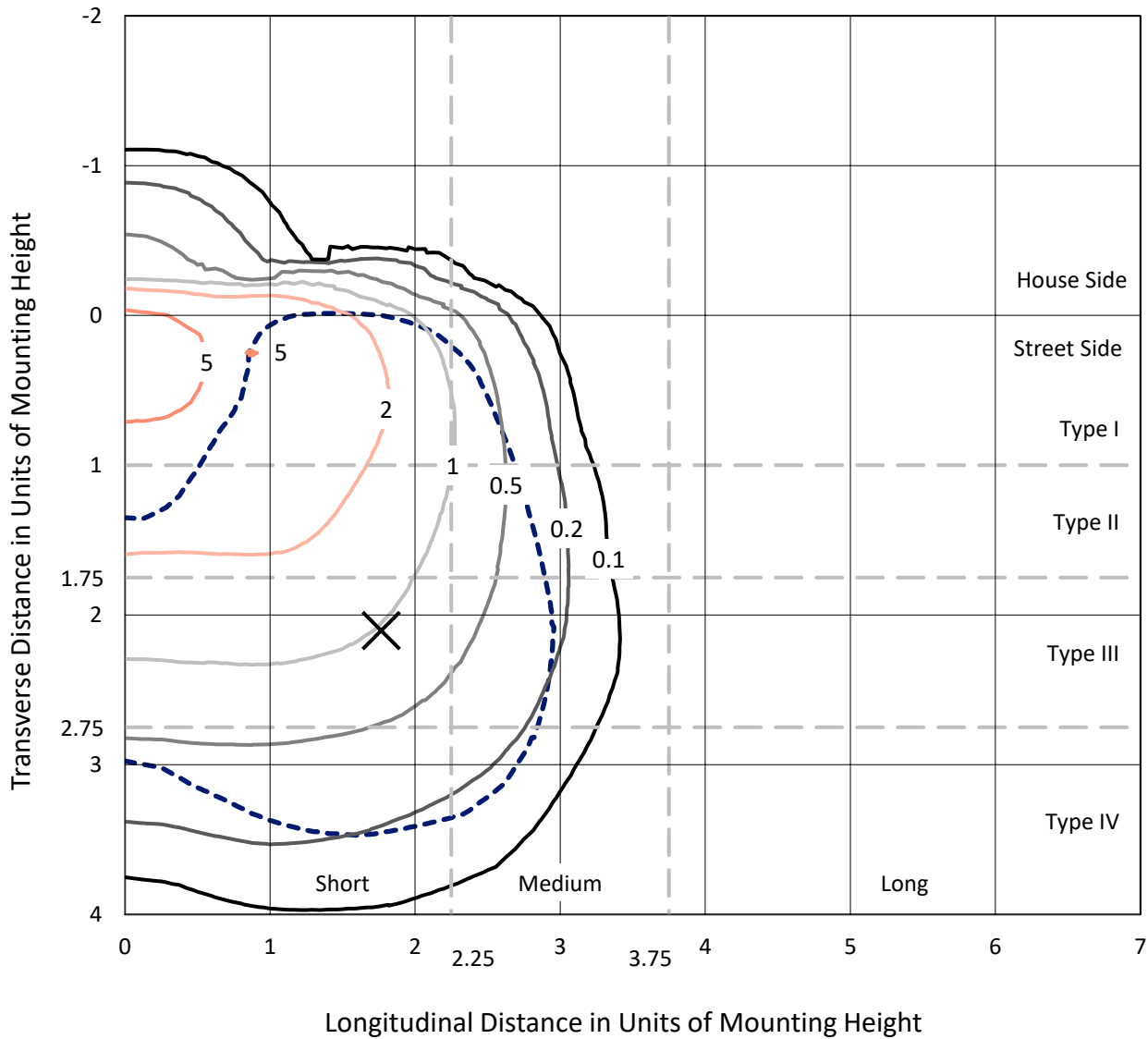
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

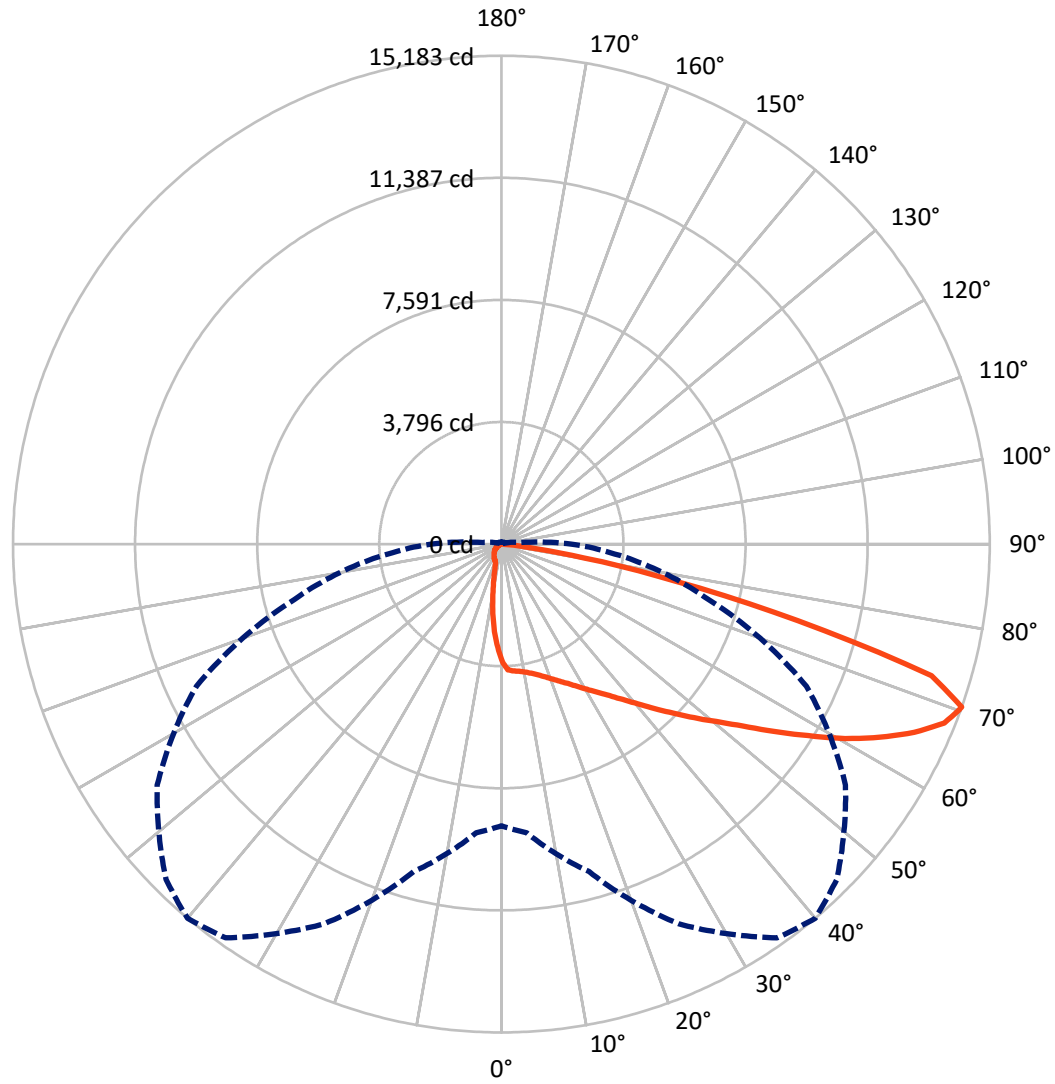
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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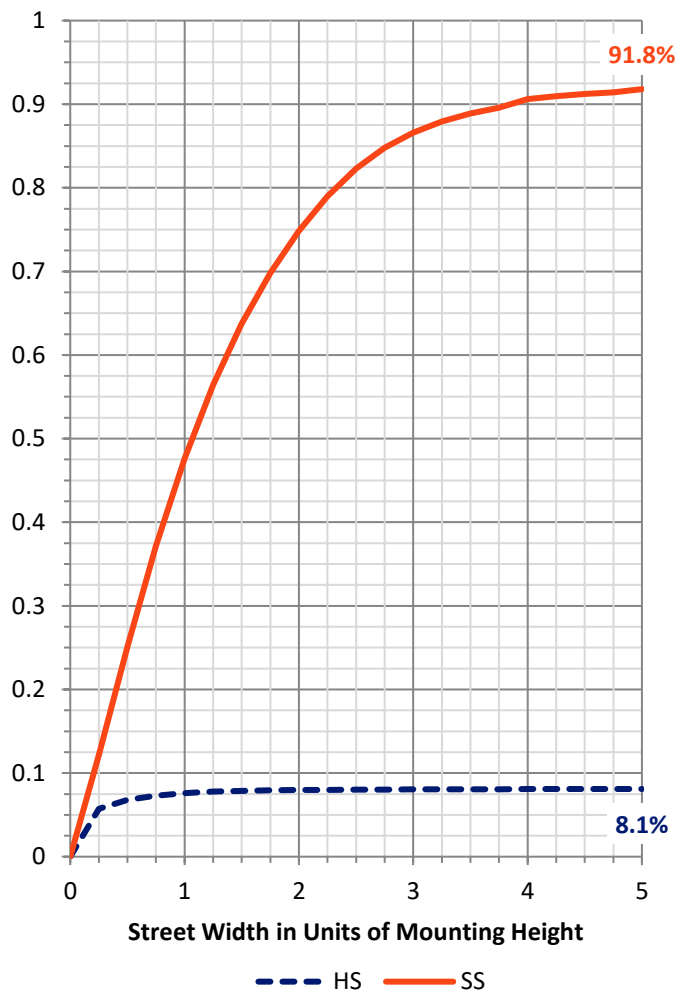
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.6	0.0	1762.6
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	19791.4	0.0	19791.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	21554.0	0.0	21554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	1.4
10°-20°	784.0	3.6
20°-30°	1312.2	6.1
30°-40°	2061.0	9.6
40°-50°	3260.0	15.1
50°-60°	4755.4	22.1
60°-70°	5895.0	27.4
70°-80°	2982.5	13.8
80°-90°	194.7	0.9
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°	21554.0	100.0
0°-180°	21554.0	100.0

Coefficient of Utilization



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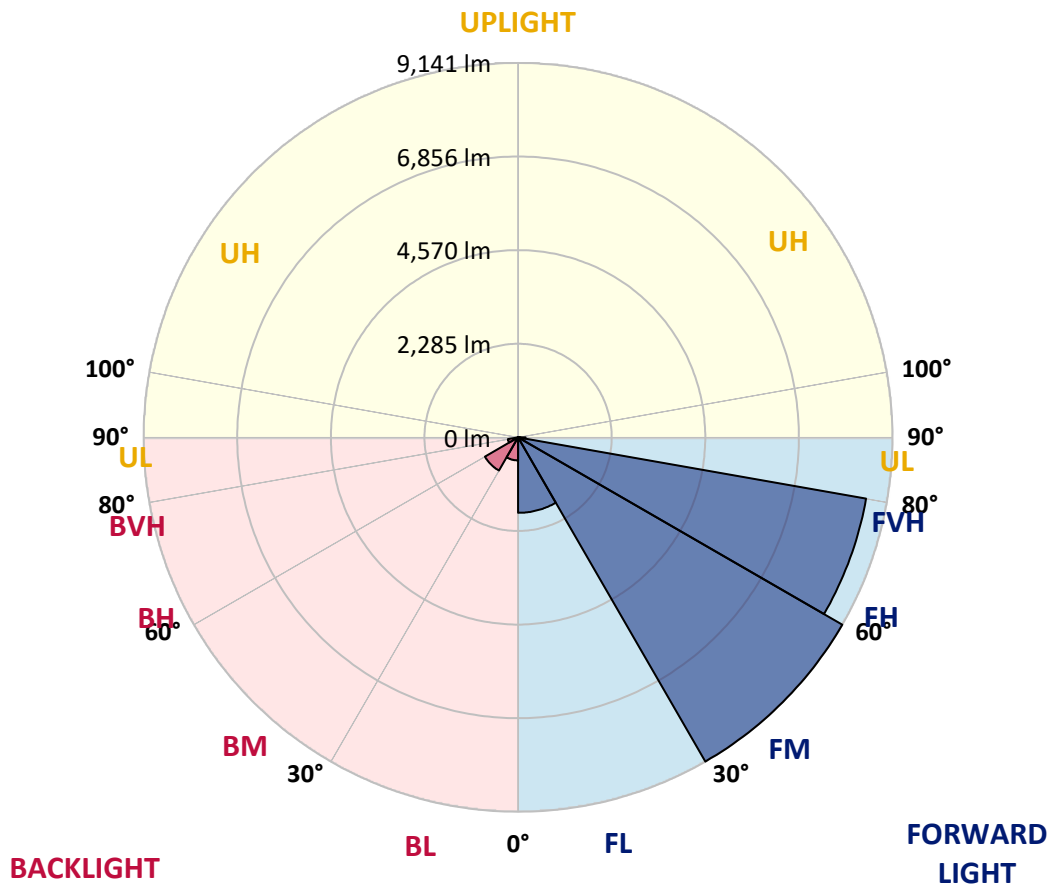
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.5	8.5			
FM (30°-60°)	9140.8	42.4			
FH (60°-80°)	8626.3	40.0			G4/12000
FVH (80°-90°)	181.9	0.8			G2/225
BL (0°-30°)	562.9	2.6	B2/1000		
BM (30°-60°)	935.6	4.3	B1/1000		
BH (60°-80°)	251.3	1.2	B1/500		G1/500
BVH (80°-90°)	12.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5
2.5°	3932.0	3945.7	3943.8	3949.7	3935.9	3914.4	3910.4	3881.0	3828.1	3761.4	3686.9
5°	4012.4	4028.1	4016.3	4010.5	3985.0	3961.4	3955.5	3924.2	3863.4	3773.2	3643.7
7.5°	4081.1	4085.0	4077.1	4063.4	4026.1	3994.8	3973.2	3930.0	3857.5	3767.3	3618.2
10°	4092.8	4090.9	4094.8	4096.7	4073.2	4045.8	4028.1	3969.3	3877.1	3781.0	3620.2
12.5°	4079.1	4079.1	4104.6	4134.0	4134.0	4120.3	4102.6	4049.7	3941.8	3828.1	3659.4
15°	4096.7	4102.6	4151.7	4206.6	4224.2	4210.5	4202.6	4147.7	4035.9	3910.4	3730.0
17.5°	4159.5	4165.4	4243.8	4326.2	4347.8	4332.1	4316.4	4261.5	4141.8	4004.6	3810.4
20°	4251.7	4267.4	4367.4	4473.3	4492.9	4473.3	4441.9	4365.4	4245.8	4106.5	3886.9
22.5°	4420.3	4430.1	4538.0	4649.8	4659.6	4628.2	4581.1	4475.2	4349.7	4214.4	3973.2
25°	4643.9	4657.6	4765.5	4873.3	4847.8	4800.8	4736.1	4616.4	4473.3	4341.9	4083.0
27.5°	4910.6	4926.3	5032.2	5126.3	5059.6	5004.7	4932.2	4783.1	4638.0	4518.4	4224.2
30°	5198.9	5212.6	5306.7	5391.1	5302.8	5238.1	5151.8	4998.8	4851.8	4761.6	4424.2
32.5°	5477.4	5475.4	5565.6	5634.2	5544.0	5493.0	5414.6	5259.7	5142.0	5102.8	4722.3
35°	5736.2	5736.2	5810.7	5879.4	5814.7	5787.2	5714.7	5591.1	5524.4	5571.5	5120.4
37.5°	5997.1	5983.3	6053.9	6130.4	6124.5	6126.5	6085.3	6026.5	6030.4	6197.1	5667.6
40°	6212.8	6206.9	6289.3	6389.3	6467.7	6530.5	6505.0	6526.5	6650.1	6961.9	6367.7
42.5°	6385.3	6399.1	6505.0	6663.8	6861.9	6989.4	7007.0	7095.3	7413.0	7895.4	7158.0
45°	6583.4	6585.4	6732.5	6975.6	7291.4	7493.4	7564.0	7791.5	8242.5	8864.2	8024.8
47.5°	6826.6	6803.1	6967.8	7309.0	7766.0	8064.1	8189.6	8473.9	9172.1	9809.4	8730.8
50°	7095.3	7052.1	7238.4	7703.2	8297.4	8670.0	8925.0	9340.7	10093.8	10586.0	9256.4
52.5°	7407.1	7365.9	7577.7	8156.2	8934.8	9387.8	9715.3	10135.0	10884.1	11178.3	9570.2
55°	7803.2	7762.0	7985.6	8699.4	9687.8	10276.2	10619.4	10972.4	11619.5	11615.6	9797.7
57.5°	8242.5	8185.6	8495.5	9385.8	10627.2	11239.1	11588.2	11760.7	12178.4	11954.9	9950.6
60°	8746.5	8695.5	9125.0	10203.6	11711.7	12278.5	12498.1	12427.5	12637.3	12154.9	9897.7
62.5°	9201.5	9178.0	9711.4	11070.4	12745.2	13223.7	13284.5	12976.6	12974.7	12158.8	9540.8
65°	9674.1	9719.2	10511.5	12068.6	13784.6	14106.2	14002.3	13521.8	13110.0	11678.4	8485.7
67.5°	9850.6	9982.0	11039.0	12970.7	14604.3	14855.3	14673.0	13794.4	12547.1	10062.4	6461.8
70°	8760.2	9007.3	10540.9	13021.7	14943.6	15182.9	14745.5	13060.9	10460.5	6665.8	3539.8
72.5°	6661.9	6950.1	8783.8	10662.5	13439.4	13984.6	13237.4	10640.9	6742.3	2920.1	1188.4
75°	3728.1	4039.9	6542.2	8028.8	9023.0	9521.2	9246.6	6826.6	2986.8	762.9	355.0
77.5°	1261.0	1364.9	3043.6	4967.5	5955.9	5508.7	4663.5	3390.7	1098.2	290.2	188.3
80°	747.2	786.4	1133.5	2472.9	3133.8	2598.5	2051.3	1253.1	558.9	154.9	131.4
82.5°	223.6	264.7	625.6	917.8	1227.6	764.8	647.2	715.8	290.2	84.3	109.8
85°	0.0	0.0	133.4	284.4	321.6	125.5	125.5	405.9	52.9	35.3	80.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.8	5.9	7.8	17.6
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°	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5	3657.5
2.5°	3633.9	3565.3	3484.9	3408.4	3335.8	3241.7	3196.6	3141.7	3094.6	3069.1	3082.9
5°	3561.4	3453.5	3288.8	3122.1	2953.4	2794.6	2651.4	2555.3	2469.0	2423.9	2433.7
7.5°	3498.6	3353.5	3096.6	2824.0	2553.4	2280.8	2059.2	1886.6	1753.2	1698.3	1688.5
10°	3471.2	3288.8	2926.0	2533.7	2118.0	1751.3	1437.5	1247.3	1111.9	1045.3	1057.0
12.5°	3484.9	3255.4	2780.8	2249.4	1710.1	1282.6	982.5	804.1	708.0	668.7	658.9
15°	3524.1	3247.6	2651.4	1959.1	1319.8	896.2	678.5	606.0	586.4	582.4	582.4
17.5°	3569.2	3249.5	2518.1	1665.0	1002.1	664.8	580.5	566.8	560.9	557.0	558.9
20°	3614.3	3249.5	2365.1	1366.9	753.1	574.6	553.0	543.2	537.3	535.4	535.4
22.5°	3669.2	3249.5	2194.5	1090.4	604.0	545.2	527.5	521.7	515.8	513.8	511.8
25°	3735.9	3251.5	2006.2	853.1	549.1	519.7	506.0	500.1	494.2	490.3	490.3
27.5°	3832.0	3267.2	1798.3	664.8	517.7	496.2	484.4	478.5	472.6	466.7	466.7
30°	3971.2	3306.4	1565.0	549.1	488.3	470.7	458.9	455.0	449.1	443.2	441.2
32.5°	4179.1	3375.1	1323.7	492.2	460.9	443.2	429.5	425.6	419.7	413.8	411.8
35°	4469.4	3500.6	1088.4	456.9	425.6	407.9	400.1	398.1	390.3	384.4	384.4
37.5°	4894.9	3704.5	862.9	421.6	396.1	382.4	372.6	368.7	360.8	355.0	353.0
40°	5414.6	3969.3	670.7	394.2	368.7	355.0	345.2	339.3	329.5	321.6	317.7
42.5°	6077.5	4292.9	529.5	364.8	343.2	329.5	321.6	309.9	296.1	284.4	282.4
45°	6767.8	4626.2	437.3	337.3	319.7	307.9	298.1	282.4	262.8	249.1	245.1
47.5°	7297.3	4834.1	382.4	307.9	294.2	284.4	272.6	253.0	229.4	213.8	209.8
50°	7675.8	4865.5	341.2	280.4	272.6	262.8	245.1	221.6	196.1	180.4	176.5
52.5°	7862.1	4724.3	307.9	254.9	249.1	239.3	217.7	192.2	164.7	149.0	145.1
55°	7946.4	4457.6	276.5	233.4	225.5	213.8	190.2	162.8	135.3	121.6	117.7
57.5°	7913.0	4063.4	249.1	211.8	202.0	188.3	162.8	133.4	111.8	98.1	96.1
60°	7665.9	3510.4	221.6	190.2	178.5	162.8	137.3	109.8	90.2	80.4	78.4
62.5°	7132.5	2824.0	194.1	164.7	156.9	141.2	117.7	90.2	74.5	68.6	66.7
65°	6040.2	1996.4	166.7	139.2	135.3	119.6	98.1	74.5	64.7	60.8	58.8
67.5°	4341.9	1213.9	141.2	119.6	115.7	102.0	82.4	64.7	58.8	56.9	56.9
70°	2182.7	574.6	111.8	98.1	98.1	84.3	70.6	58.8	56.9	54.9	54.9
72.5°	741.3	245.1	84.3	76.5	80.4	72.6	60.8	54.9	54.9	54.9	54.9
75°	253.0	129.4	58.8	54.9	58.8	58.8	52.9	52.9	54.9	54.9	54.9
77.5°	164.7	86.3	41.2	37.3	45.1	45.1	45.1	49.0	52.9	52.9	52.9
80°	135.3	47.1	27.5	25.5	33.3	33.3	37.3	45.1	49.0	49.0	49.0
82.5°	115.7	29.4	15.7	17.6	23.5	25.5	31.4	37.3	43.1	45.1	45.1
85°	78.4	15.7	11.8	13.7	15.7	19.6	25.5	31.4	35.3	39.2	39.2
87.5°	21.6	5.9	7.8	9.8	9.8	13.7	19.6	23.5	27.5	29.4	29.4
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)