

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: P640812

Luminaire Tested: GWS-SA5E-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30061.1 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

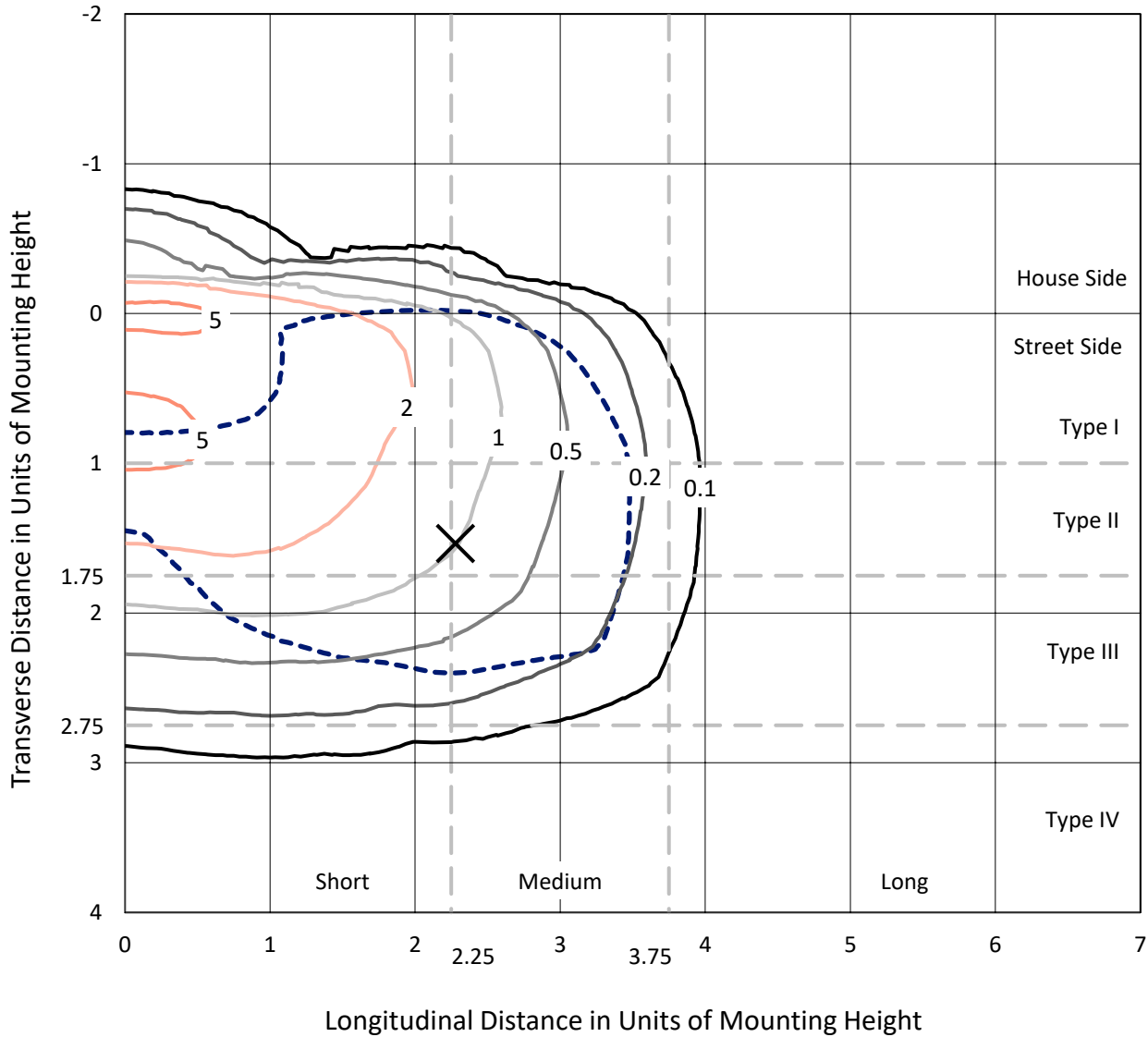
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

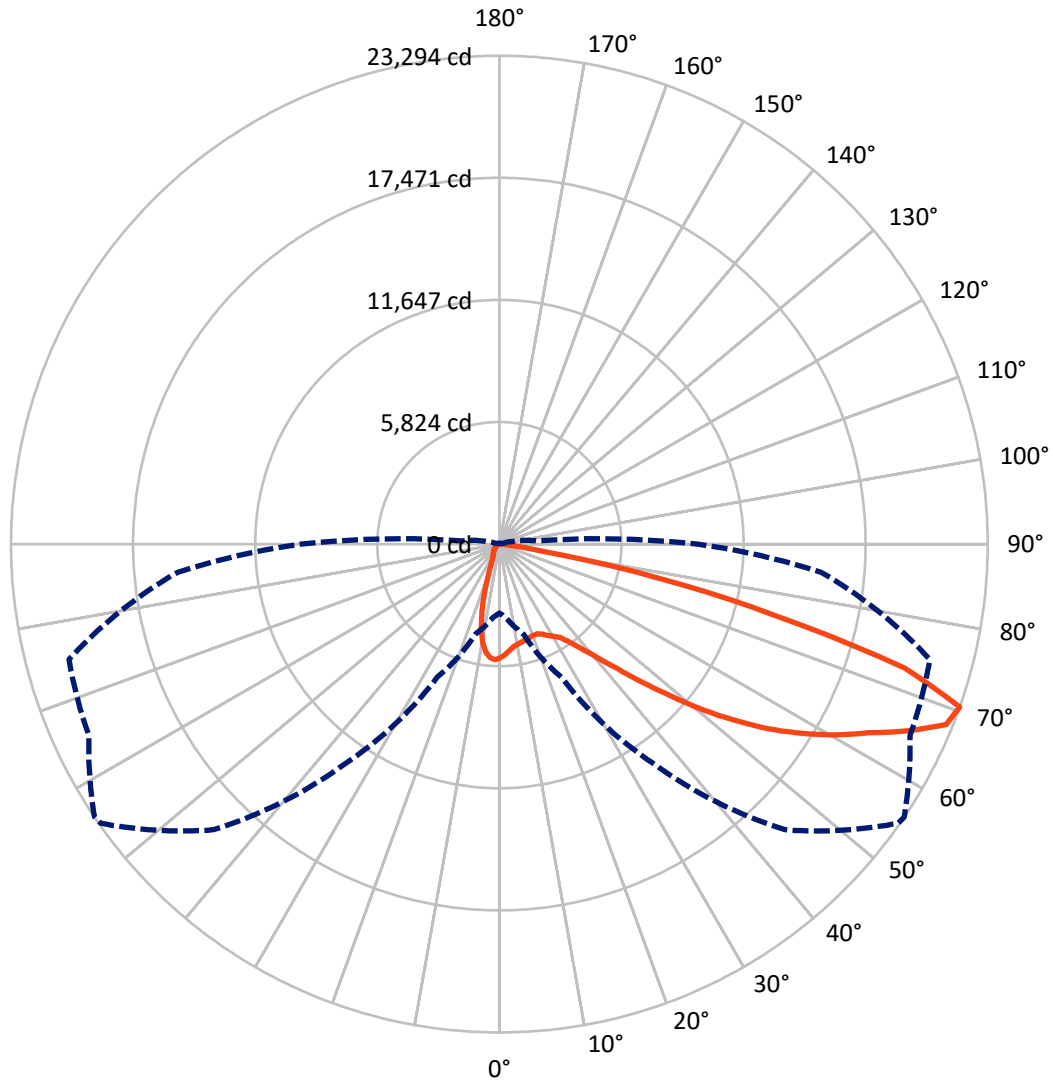
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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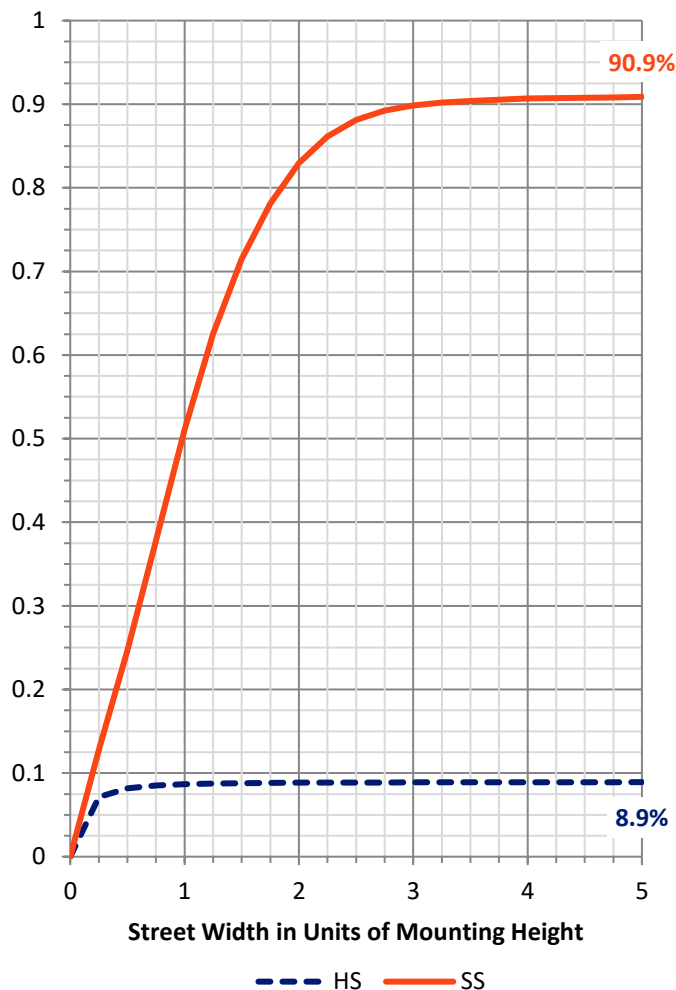
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2700.1	0.0	2700.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	27361.0	0.0	27361.0
	% Fixture	91.0	0.0	91.0
Total	Lumens	30061.1	0.0	30061.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.4	1.5
10°-20°	1046.7	3.5
20°-30°	1658.0	5.5
30°-40°	2859.2	9.5
40°-50°	4828.2	16.1
50°-60°	7094.1	23.6
60°-70°	8410.5	28.0
70°-80°	3586.5	11.9
80°-90°	112.6	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°	30061.1	100.0
0°-180°	30061.1	100.0

Coefficient of Utilization



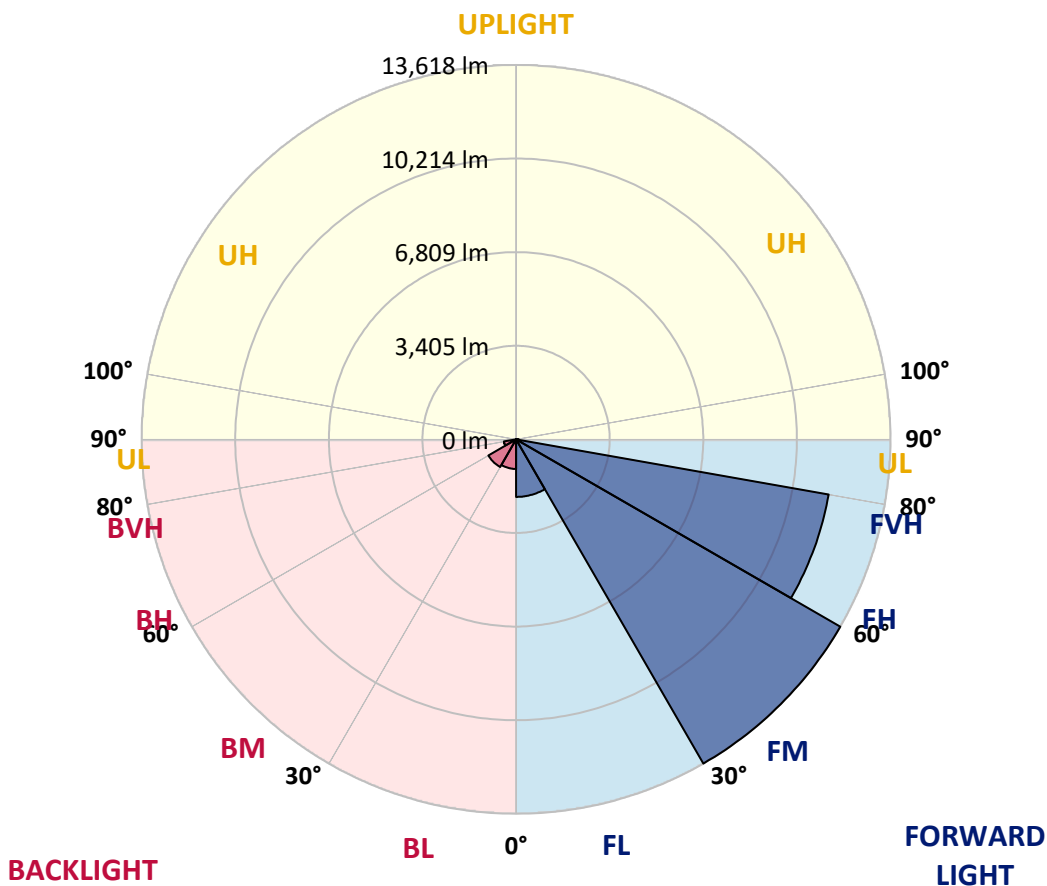
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.7	7.0			
FM (30°-60°)	13618.5	45.3			
FH (60°-80°)	11546.7	38.4			G4/12000
FVH (80°-90°)	101.2	0.3			G2/225
BL (0°-30°)	1075.3	3.6	B3/2500		
BM (30°-60°)	1163.0	3.9	B2/2500		
BH (60°-80°)	450.3	1.5	B1/500		G1/500
BVH (80°-90°)	11.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3
2.5°	5045.9	5037.7	5043.2	5084.5	5161.6	5197.3	5257.9	5268.9	5318.5	5381.8	5406.6
5°	4718.3	4690.8	4704.6	4762.4	4850.5	4949.6	5062.5	5092.7	5216.6	5357.0	5461.6
7.5°	4418.3	4388.0	4421.0	4511.9	4635.8	4743.1	4911.0	4930.3	5128.5	5376.3	5566.2
10°	3947.6	3955.8	4021.9	4181.5	4371.5	4594.5	4820.2	4847.7	5092.7	5439.6	5734.1
12.5°	3586.9	3567.7	3639.2	3820.9	4087.9	4412.8	4751.4	4787.2	5095.5	5535.9	5948.9
15°	3419.0	3413.5	3443.8	3575.9	3834.7	4217.3	4688.1	4734.9	5131.3	5624.0	6152.6
17.5°	3424.5	3416.3	3413.5	3490.6	3683.3	4071.4	4619.2	4679.8	5161.6	5720.4	6367.3
20°	3664.0	3625.5	3556.7	3520.9	3636.5	3977.8	4572.4	4641.3	5205.6	5822.2	6595.8
22.5°	4165.0	4178.8	3994.4	3801.7	3746.6	3988.8	4566.9	4646.8	5301.9	5981.9	6876.6
25°	5167.1	5145.0	4803.7	4371.5	4071.4	4115.5	4663.3	4759.6	5491.9	6210.4	7140.8
27.5°	6422.3	6441.6	5973.6	5285.4	4657.8	4377.0	4839.5	4935.8	5712.1	6353.5	7317.0
30°	7790.5	7771.2	7270.2	6507.7	5489.1	4811.9	5015.7	5101.0	5822.2	6430.6	7498.7
32.5°	9084.3	9040.3	8544.8	7746.5	6549.0	5497.4	5257.9	5307.5	5968.1	6598.5	7743.7
35°	10188.2	10185.5	9753.3	8902.6	7639.1	6356.3	5673.6	5714.9	6240.7	6865.6	8104.3
37.5°	11327.9	11289.3	10804.9	10028.6	8759.5	7297.7	6309.5	6293.0	6670.1	7259.2	8547.5
40°	12263.8	12239.1	11867.4	11121.4	9923.9	8338.3	7080.3	7030.7	7179.4	7804.3	9164.2
42.5°	12957.6	12960.3	12844.7	12390.5	11157.2	9541.3	8049.3	7972.2	7969.4	8627.4	9979.0
45°	13483.4	13519.1	13692.6	13623.7	12613.5	10942.5	9290.8	9211.0	9076.1	9695.5	10912.2
47.5°	13728.4	13775.2	14298.2	14573.5	13888.0	12332.7	10769.1	10601.1	10336.9	11115.9	11955.5
50°	13703.6	13786.2	14515.7	15352.5	15044.2	13742.1	12379.5	12299.6	11867.4	12619.0	12987.8
52.5°	13142.0	13318.2	14529.4	15826.0	15933.4	15041.5	14044.9	13896.3	13687.1	14188.1	13956.8
55°	11616.9	11831.7	13948.6	15977.4	16627.1	16175.6	15674.6	15553.5	15206.6	15669.1	14802.0
57.5°	10788.3	10972.8	12726.3	15903.1	17216.2	17224.4	17125.3	17026.2	16739.9	17133.6	15793.0
60°	10290.1	10474.5	12073.9	15630.6	17750.2	18331.1	18488.0	18477.0	18064.1	18799.1	16954.7
62.5°	9560.6	9813.8	11394.0	14923.1	18130.1	19421.2	19894.7	19820.4	19360.6	20533.3	18105.4
65°	8087.8	8308.0	10001.0	13755.9	17907.1	20324.1	21419.8	21458.3	20927.0	22165.8	19013.8
67.5°	5670.8	5833.2	7515.2	11305.9	16393.1	20621.4	22980.6	22977.9	22072.2	23002.6	18611.9
70°	3286.9	3509.9	4440.3	6989.4	12753.9	19269.8	23214.6	23294.4	21606.9	21254.6	15402.1
72.5°	1271.8	1456.2	2516.1	3713.6	6650.8	14760.7	19969.0	20203.0	18083.3	16395.8	10719.5
75°	379.9	423.9	1183.7	1976.5	2670.2	7129.8	13519.1	13585.2	12404.2	10226.8	5494.6
77.5°	283.5	313.8	517.5	999.3	936.0	2161.0	6994.9	7639.1	6584.8	3653.0	1514.1
80°	192.7	228.5	368.9	487.3	346.9	575.3	1965.5	2158.2	2009.6	820.3	379.9
82.5°	85.3	110.1	261.5	245.0	126.6	165.2	605.6	644.2	415.7	247.8	132.1
85°	8.3	11.0	99.1	107.4	46.8	38.5	126.6	126.6	90.8	85.3	55.1
87.5°	0.0	0.0	2.8	5.5	5.5	8.3	11.0	13.8	16.5	22.0	27.5
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°	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3	5420.3
2.5°	5469.9	5436.8	5478.1	5511.2	5519.4	5458.9	5423.1	5370.8	5359.8	5362.5	5348.7
5°	5544.2	5527.7	5558.0	5522.2	5428.6	5252.4	5101.0	4933.1	4842.2	4789.9	4784.4
7.5°	5681.8	5673.6	5640.5	5478.1	5186.3	4795.4	4418.3	4049.4	3820.9	3738.3	3724.6
10°	5885.5	5869.0	5734.1	5348.7	4726.6	3975.1	3341.9	2813.4	2491.3	2397.7	2282.1
12.5°	6119.5	6086.5	5792.0	5070.7	4032.9	2992.3	2202.3	1610.4	1332.4	1249.8	1249.8
15°	6345.3	6273.7	5758.9	4611.0	3179.5	1946.2	1230.5	930.5	845.1	823.1	823.1
17.5°	6576.5	6438.9	5629.5	3983.3	2196.8	1150.7	820.3	762.5	751.5	754.3	757.0
20°	6794.0	6579.3	5401.0	3229.1	1401.2	803.8	735.0	721.2	715.7	721.2	718.5
22.5°	7030.7	6708.6	5054.2	2406.0	911.2	724.0	699.2	688.2	682.7	691.0	691.0
25°	7264.7	6802.2	4594.5	1618.7	724.0	674.4	660.7	649.7	644.2	646.9	646.9
27.5°	7385.8	6766.5	3991.6	1032.3	649.7	624.9	611.1	597.4	589.1	586.4	589.1
30°	7468.4	6656.3	3253.8	735.0	589.1	558.8	545.1	534.0	512.0	498.3	503.8
32.5°	7597.8	6546.2	2452.8	616.6	539.6	492.8	470.7	443.2	412.9	399.2	399.2
35°	7752.0	6394.8	1720.5	556.1	487.3	437.7	396.4	349.6	313.8	302.8	302.8
37.5°	7955.7	6251.7	1145.2	514.8	443.2	390.9	333.1	278.0	239.5	234.0	231.2
40°	8261.2	6130.5	806.6	484.5	404.7	341.4	272.5	214.7	187.2	178.9	178.9
42.5°	8657.6	6006.7	638.7	454.2	371.6	294.6	217.5	170.7	148.7	143.1	140.4
45°	9147.6	5860.8	556.1	426.7	338.6	245.0	173.4	143.1	126.6	121.1	121.1
47.5°	9678.9	5662.6	517.5	390.9	300.1	198.2	145.9	123.9	115.6	112.9	110.1
50°	10202.0	5395.5	484.5	357.9	256.0	162.4	126.6	112.9	107.4	104.6	104.6
52.5°	10659.0	5084.5	443.2	319.3	209.2	140.4	112.9	104.6	99.1	93.6	90.8
55°	11049.9	4745.9	390.9	275.3	170.7	123.9	104.6	96.3	90.8	85.3	82.6
57.5°	11553.6	4553.2	313.8	223.0	140.4	110.1	96.3	88.1	82.6	74.3	74.3
60°	12112.4	4412.8	234.0	176.2	121.1	101.9	88.1	79.8	74.3	66.1	66.1
62.5°	12561.2	4203.6	184.4	143.1	104.6	90.8	79.8	71.6	66.1	57.8	57.8
65°	12731.8	3771.4	151.4	112.9	85.3	79.8	71.6	66.1	57.8	49.6	49.6
67.5°	11961.0	2907.0	126.6	90.8	71.6	68.8	63.3	60.6	49.6	44.0	41.3
70°	9472.5	1772.8	104.6	74.3	60.6	57.8	57.8	52.3	44.0	41.3	38.5
72.5°	6491.2	913.9	85.3	60.6	52.3	52.3	49.6	46.8	41.3	38.5	38.5
75°	3372.2	305.6	66.1	46.8	41.3	44.0	44.0	41.3	38.5	38.5	35.8
77.5°	966.2	137.6	49.6	35.8	33.0	33.0	35.8	35.8	35.8	33.0	33.0
80°	250.5	79.8	35.8	27.5	27.5	27.5	27.5	30.3	33.0	30.3	30.3
82.5°	101.9	44.0	24.8	22.0	22.0	22.0	22.0	24.8	27.5	27.5	27.5
85°	63.3	22.0	19.3	19.3	19.3	16.5	16.5	19.3	19.3	22.0	22.0
87.5°	38.5	16.5	16.5	16.5	16.5	13.8	13.8	13.8	13.8	13.8	13.8
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)