

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: P641227

Luminaire Tested: GWS-SA5F-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641227
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-SA5F-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32886.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

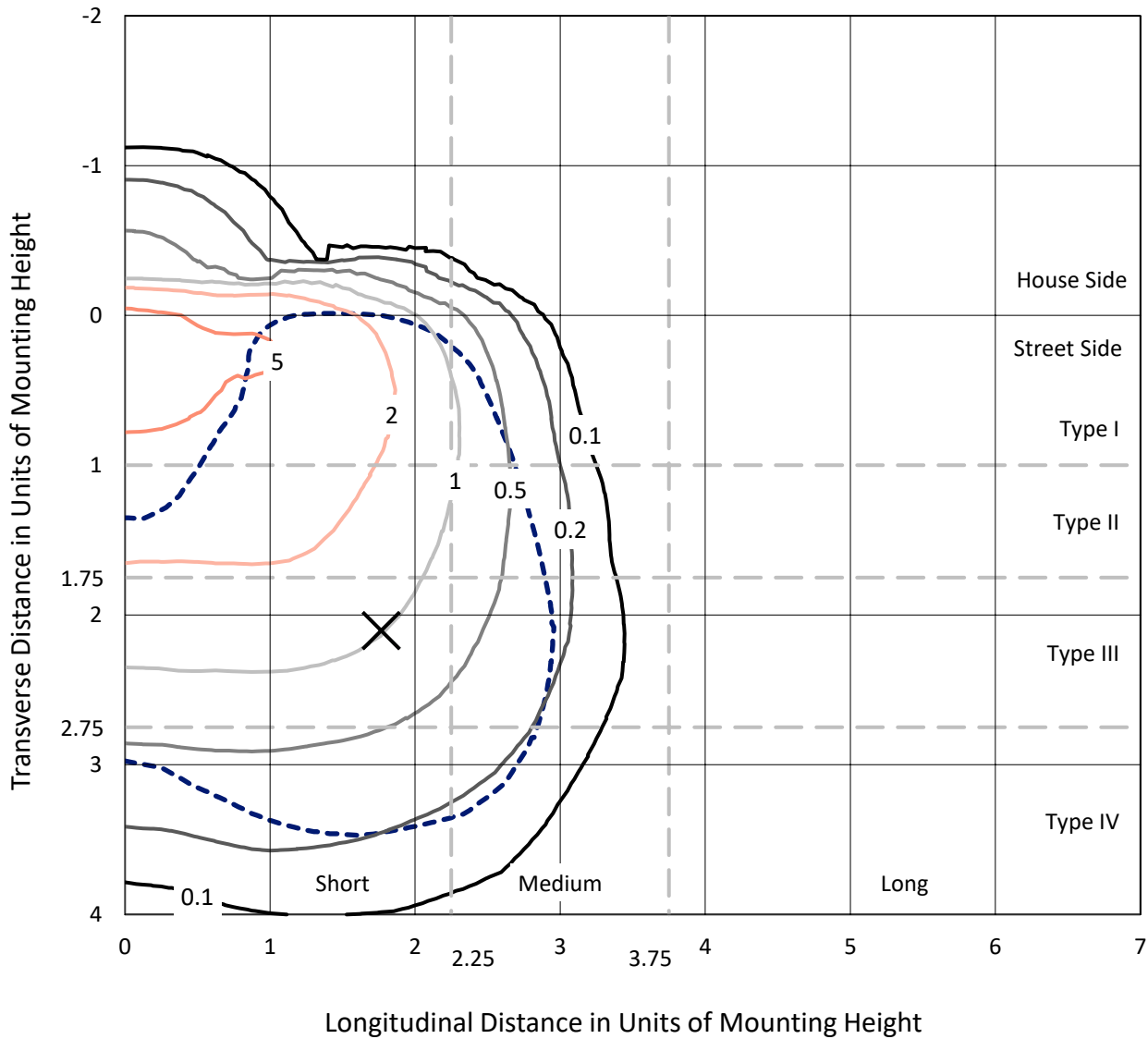
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

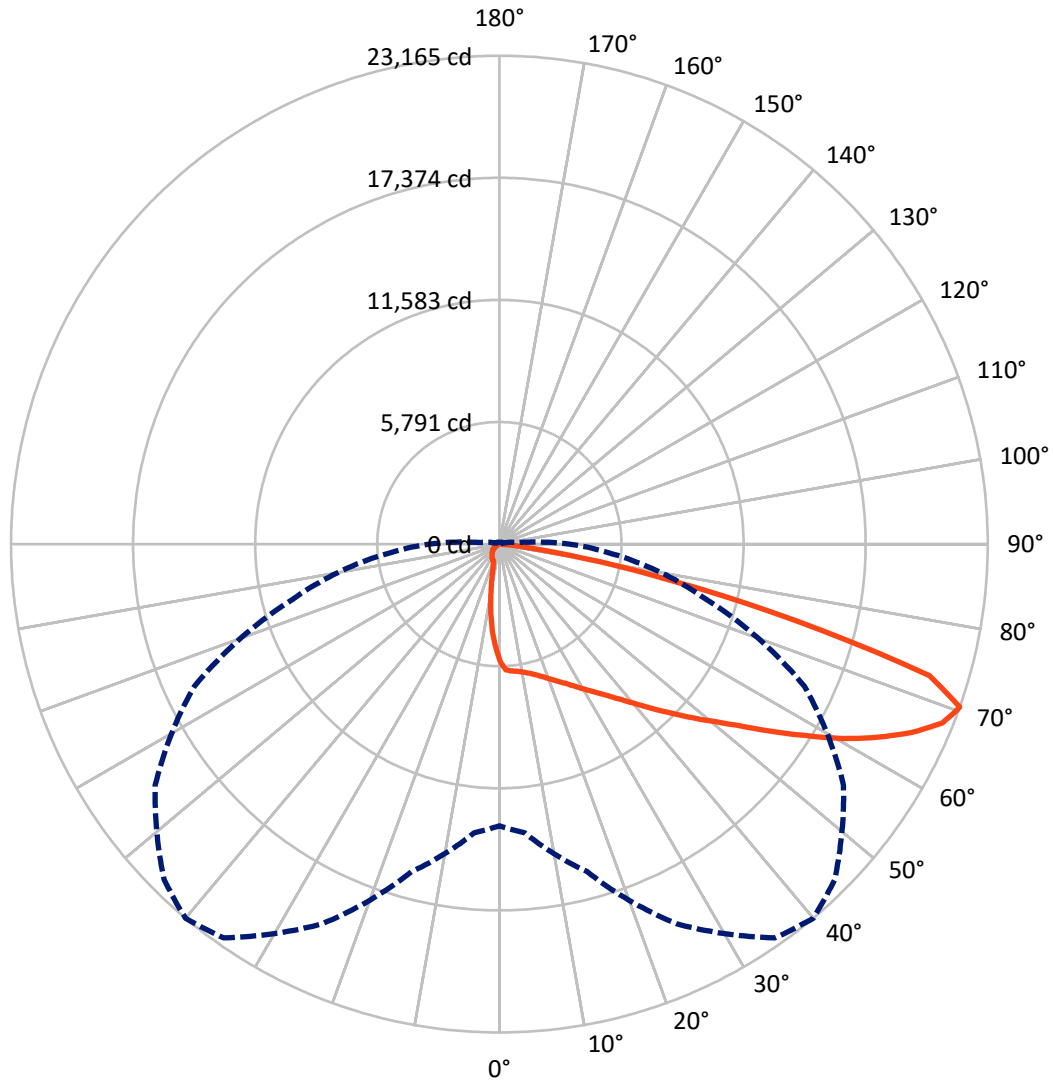
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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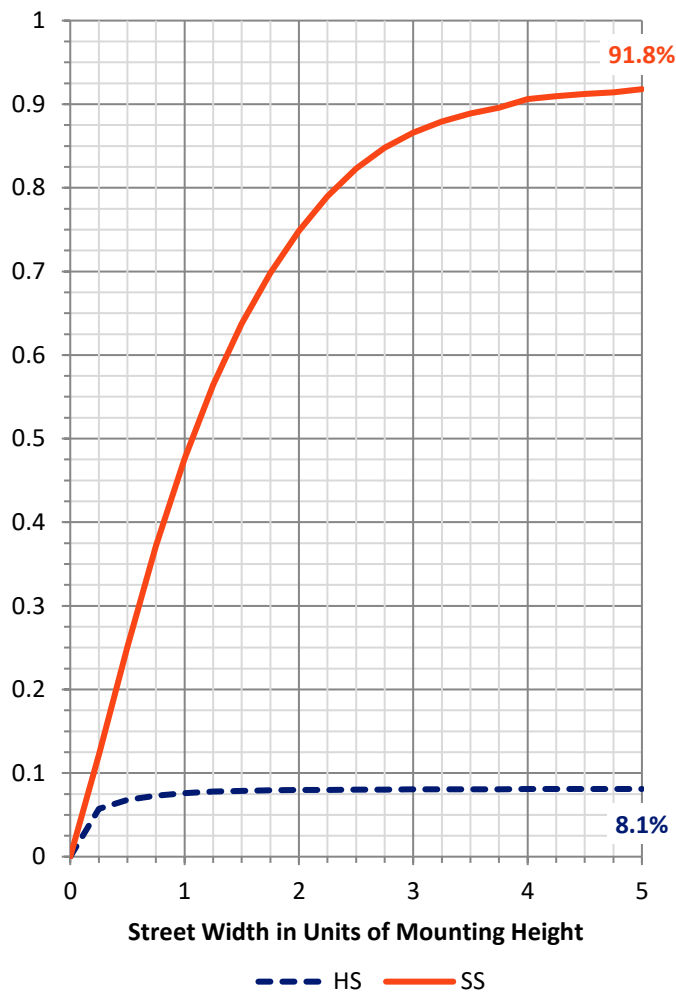
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2689.2	0.0	2689.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	30197.0	0.0	30197.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	32886.2	0.0	32886.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	1.4
10°-20°	1196.2	3.6
20°-30°	2002.1	6.1
30°-40°	3144.5	9.6
40°-50°	4973.9	15.1
50°-60°	7255.6	22.1
60°-70°	8994.4	27.4
70°-80°	4550.7	13.8
80°-90°	297.1	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°	32886.2	100.0
0°-180°	32886.2	100.0

Coefficient of Utilization



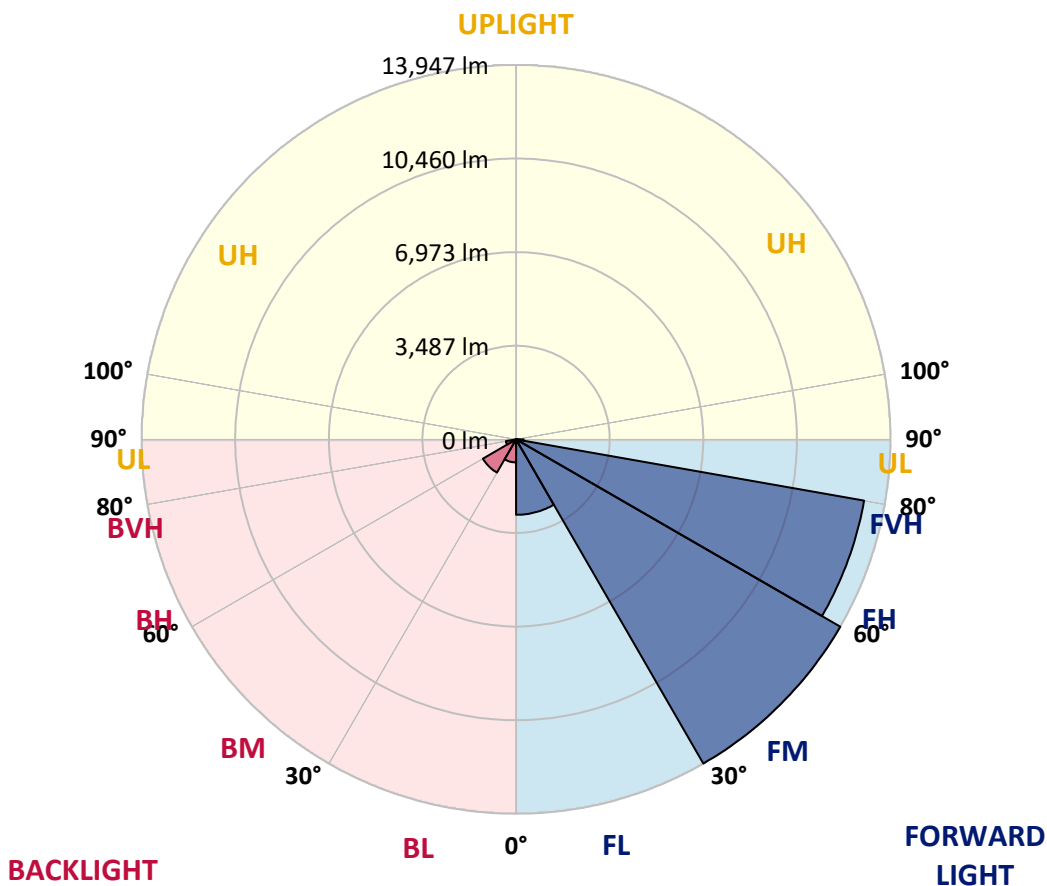
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2811.2	8.5			
FM (30°-60°)	13946.7	42.4			
FH (60°-80°)	13161.6	40.0			G5
FVH (80°-90°)	277.5	0.8			G3/500
BL (0°-30°)	858.8	2.6	B2/1000		
BM (30°-60°)	1427.4	4.3	B2/2500		
BH (60°-80°)	383.4	1.2	B1/500		G1/500
BVH (80°-90°)	19.6	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4
2.5°	5999.3	6020.2	6017.3	6026.2	6005.3	5972.4	5966.4	5921.5	5840.7	5739.0	5625.3
5°	6122.0	6145.9	6128.0	6119.0	6080.1	6044.2	6035.2	5987.3	5894.6	5756.9	5559.4
7.5°	6226.7	6232.7	6220.7	6199.8	6142.9	6095.0	6062.1	5996.3	5885.6	5748.0	5520.6
10°	6244.7	6241.7	6247.6	6250.6	6214.7	6172.8	6145.9	6056.1	5915.5	5768.9	5523.5
12.5°	6223.7	6223.7	6262.6	6307.5	6307.5	6286.5	6259.6	6178.8	6014.3	5840.7	5583.4
15°	6250.6	6259.6	6334.4	6418.2	6445.1	6424.2	6412.2	6328.4	6157.9	5966.4	5691.1
17.5°	6346.4	6355.4	6475.1	6600.7	6633.6	6609.7	6585.8	6502.0	6319.5	6110.0	5813.8
20°	6487.0	6511.0	6663.6	6825.1	6855.1	6825.1	6777.3	6660.6	6478.0	6265.6	5930.5
22.5°	6744.3	6759.3	6923.9	7094.4	7109.4	7061.5	6989.7	6828.1	6636.6	6430.2	6062.1
25°	7085.5	7106.4	7271.0	7435.5	7396.6	7324.8	7226.1	7043.6	6825.1	6624.7	6229.7
27.5°	7492.4	7516.3	7677.9	7821.5	7719.8	7636.0	7525.3	7297.9	7076.5	6894.0	6445.1
30°	7932.2	7953.2	8096.8	8225.5	8090.8	7992.1	7860.4	7627.0	7402.6	7265.0	6750.3
32.5°	8357.1	8354.1	8491.8	8596.5	8458.9	8381.1	8261.4	8025.0	7845.5	7785.6	7205.1
35°	8752.1	8752.1	8865.8	8970.5	8871.8	8829.9	8719.2	8530.7	8428.9	8500.8	7812.6
37.5°	9150.1	9129.1	9236.8	9353.5	9344.5	9347.5	9284.7	9194.9	9200.9	9455.3	8647.4
40°	9479.2	9470.2	9595.9	9748.5	9868.2	9963.9	9925.0	9957.9	10146.4	10622.2	9715.6
42.5°	9742.5	9763.4	9925.0	10167.4	10469.6	10664.1	10691.0	10825.7	11310.4	12046.5	10921.4
45°	10044.7	10047.7	10272.1	10643.1	11124.9	11433.1	11540.8	11887.9	12576.1	13524.6	12244.0
47.5°	10415.7	10379.8	10631.2	11151.8	11849.0	12303.8	12495.3	12929.2	13994.4	14966.8	13321.1
50°	10825.7	10759.8	11044.1	11753.2	12659.9	13228.4	13617.4	14251.7	15400.7	16151.7	14123.0
52.5°	11301.4	11238.6	11561.7	12444.4	13632.3	14323.5	14823.2	15463.5	16606.5	17055.4	14601.8
55°	11905.8	11843.0	12184.1	13273.3	14781.3	15679.0	16202.6	16741.2	17728.6	17722.6	14948.9
57.5°	12576.1	12489.3	12962.1	14320.5	16214.6	17148.1	17680.7	17944.0	18581.4	18240.3	15182.3
60°	13345.1	13267.3	13922.6	15568.3	17869.2	18734.0	19069.1	18961.4	19281.5	18545.5	15101.5
62.5°	14039.3	14003.3	14817.2	16890.8	19446.1	20176.2	20268.9	19799.2	19796.2	18551.4	14556.9
65°	14760.4	14829.2	16038.0	18413.8	21032.0	21522.7	21364.1	20631.0	20002.6	17818.4	12947.1
67.5°	15029.7	15230.1	16842.9	19790.2	22282.7	22665.7	22387.4	21046.9	19143.9	15352.8	9859.2
70°	13366.0	13743.0	16082.9	19868.0	22800.3	23165.4	22498.1	19927.8	15960.2	10170.4	5400.9
72.5°	10164.4	10604.2	13401.9	16268.4	20505.3	21337.2	20197.1	16235.5	10287.1	4455.3	1813.3
75°	5688.1	6163.9	9981.9	12249.9	13767.0	14527.0	14108.1	10415.7	4557.1	1164.0	541.6
77.5°	1924.0	2082.5	4643.8	7579.2	9087.2	8405.0	7115.4	5173.5	1675.6	442.8	287.2
80°	1140.0	1199.9	1729.5	3773.1	4781.5	3964.6	3129.8	1912.0	852.8	236.4	200.5
82.5°	341.1	403.9	954.5	1400.3	1873.1	1166.9	987.4	1092.1	442.8	128.7	167.6
85°	0.0	0.0	203.5	433.9	490.7	191.5	191.5	619.4	80.8	53.9	122.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	15.0	9.0	12.0	26.9
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°	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4
2.5°	5544.5	5439.8	5317.1	5200.4	5089.7	4946.1	4877.2	4793.5	4721.6	4682.7	4703.7
5°	5433.8	5269.2	5017.9	4763.5	4506.2	4263.8	4045.4	3898.8	3767.1	3698.3	3713.3
7.5°	5338.0	5116.6	4724.6	4308.7	3895.8	3479.9	3141.8	2878.5	2675.0	2591.2	2576.3
10°	5296.1	5017.9	4464.3	3865.9	3231.5	2672.0	2193.3	1903.0	1696.6	1594.8	1612.8
12.5°	5317.1	4967.0	4242.9	3432.0	2609.2	1956.9	1499.1	1226.8	1080.2	1020.3	1005.4
15°	5376.9	4955.0	4045.4	2989.2	2013.7	1367.4	1035.3	924.6	894.7	888.7	888.7
17.5°	5445.7	4958.0	3841.9	2540.4	1529.0	1014.3	885.7	864.7	855.8	849.8	852.8
20°	5514.6	4958.0	3608.6	2085.5	1149.0	876.7	843.8	828.8	819.9	816.9	816.9
22.5°	5598.3	4958.0	3348.2	1663.6	921.6	831.8	804.9	795.9	786.9	783.9	781.0
25°	5700.1	4961.0	3061.0	1301.6	837.8	792.9	772.0	763.0	754.0	748.0	748.0
27.5°	5846.7	4985.0	2743.8	1014.3	789.9	757.0	739.1	730.1	721.1	712.1	712.1
30°	6059.1	5044.8	2387.8	837.8	745.0	718.1	700.2	694.2	685.2	676.2	673.2
32.5°	6376.3	5149.5	2019.7	751.0	703.2	676.2	655.3	649.3	640.3	631.3	628.4
35°	6819.2	5341.0	1660.7	697.2	649.3	622.4	610.4	607.4	595.4	586.5	586.5
37.5°	7468.5	5652.2	1316.6	643.3	604.4	583.5	568.5	562.5	550.6	541.6	538.6
40°	8261.4	6056.1	1023.3	601.4	562.5	541.6	526.6	517.6	502.7	490.7	484.7
42.5°	9272.7	6549.9	807.9	556.5	523.6	502.7	490.7	472.8	451.8	433.9	430.9
45°	10326.0	7058.5	667.3	514.7	487.7	469.8	454.8	430.9	401.0	380.0	374.0
47.5°	11133.9	7375.7	583.5	469.8	448.8	433.9	415.9	386.0	350.1	326.1	320.2
50°	11711.3	7423.6	520.6	427.9	415.9	401.0	374.0	338.1	299.2	275.3	269.3
52.5°	11995.6	7208.1	469.8	389.0	380.0	365.0	332.1	293.2	251.3	227.4	221.4
55°	12124.3	6801.2	421.9	356.1	344.1	326.1	290.2	248.3	206.5	185.5	179.5
57.5°	12073.4	6199.8	380.0	323.2	308.2	287.2	248.3	203.5	170.6	149.6	146.6
60°	11696.4	5356.0	338.1	290.2	272.3	248.3	209.5	167.6	137.6	122.7	119.7
62.5°	10882.5	4308.7	296.2	251.3	239.4	215.4	179.5	137.6	113.7	104.7	101.7
65°	9215.9	3046.0	254.3	212.4	206.5	182.5	149.6	113.7	98.7	92.8	89.8
67.5°	6624.7	1852.2	215.4	182.5	176.5	155.6	125.7	98.7	89.8	86.8	86.8
70°	3330.3	876.7	170.6	149.6	149.6	128.7	107.7	89.8	86.8	83.8	83.8
72.5°	1131.0	374.0	128.7	116.7	122.7	110.7	92.8	83.8	83.8	83.8	83.8
75°	386.0	197.5	89.8	83.8	89.8	89.8	80.8	80.8	83.8	83.8	83.8
77.5°	251.3	131.7	62.8	56.9	68.8	68.8	68.8	74.8	80.8	80.8	80.8
80°	206.5	71.8	41.9	38.9	50.9	50.9	56.9	68.8	74.8	74.8	74.8
82.5°	176.5	44.9	23.9	26.9	35.9	38.9	47.9	56.9	65.8	68.8	68.8
85°	119.7	23.9	18.0	20.9	23.9	29.9	38.9	47.9	53.9	59.8	59.8
87.5°	32.9	9.0	12.0	15.0	15.0	20.9	29.9	35.9	41.9	44.9	44.9
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)