

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: P640195

Luminaire Tested: GWS-SA5D-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22194 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

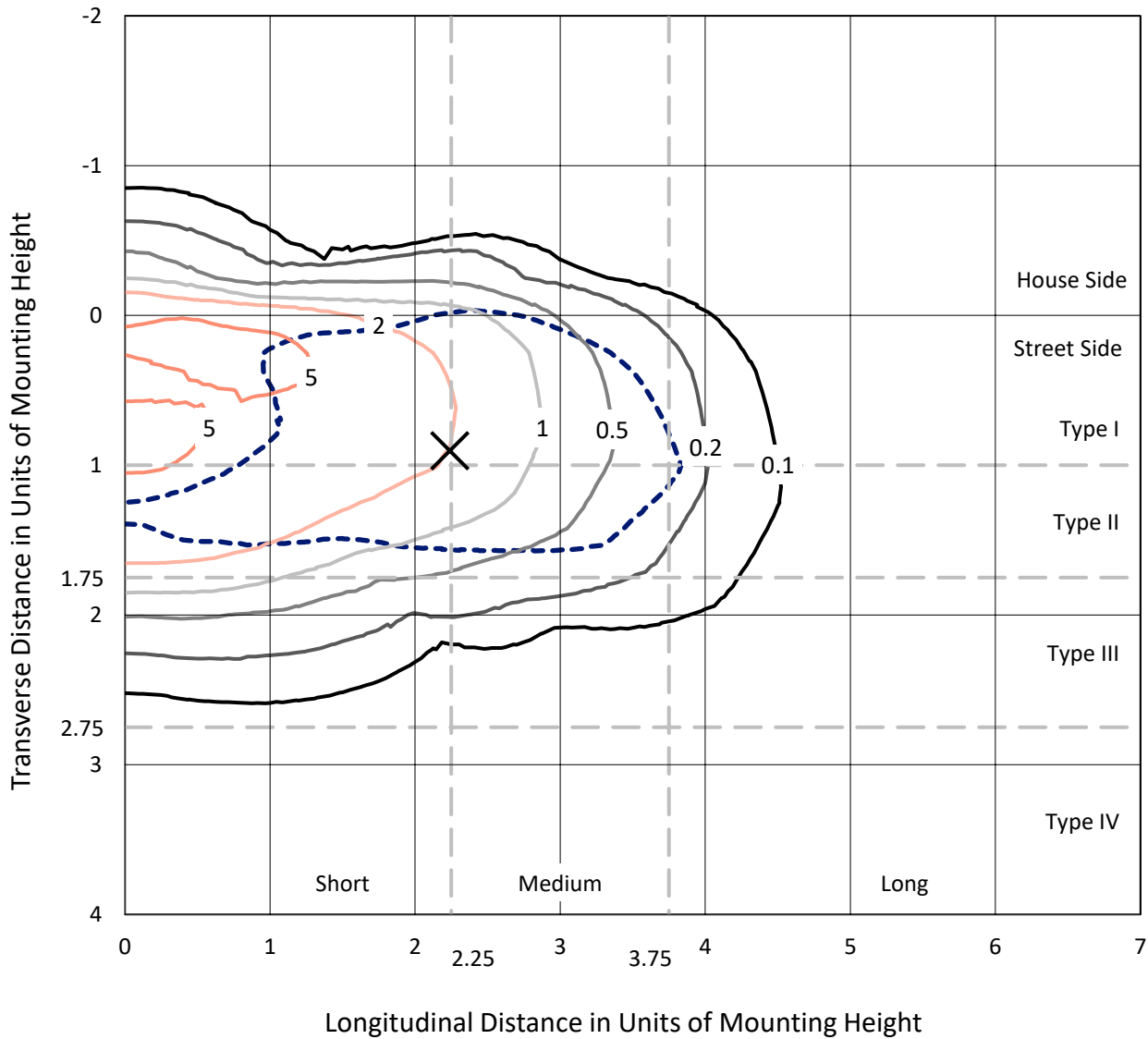
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

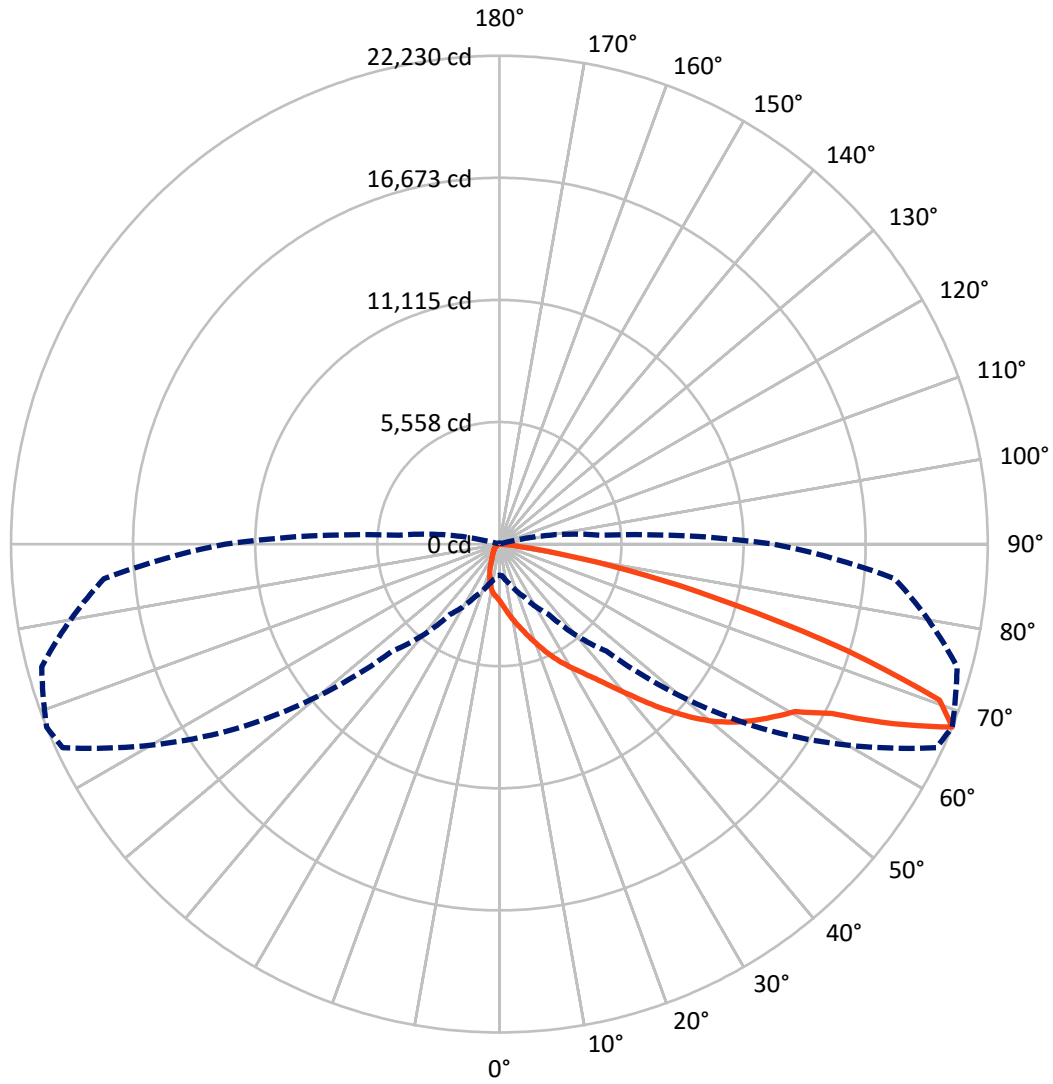
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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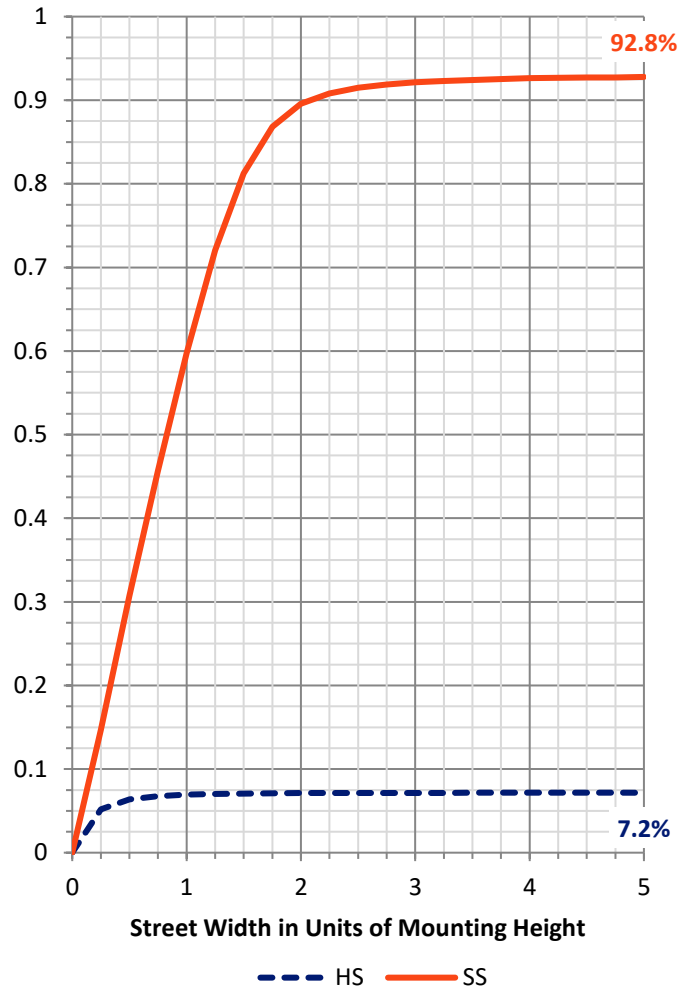
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1602.7	0.0	1602.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20591.3	0.0	20591.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	22194.0	0.0	22194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.9	1.1
10°-20°	723.4	3.3
20°-30°	1243.1	5.6
30°-40°	2161.4	9.7
40°-50°	3771.4	17.0
50°-60°	5688.2	25.6
60°-70°	5703.8	25.7
70°-80°	2516.5	11.3
80°-90°	134.4	0.6
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°	22194.0	100.0
0°-180°	22194.0	100.0

Coefficient of Utilization



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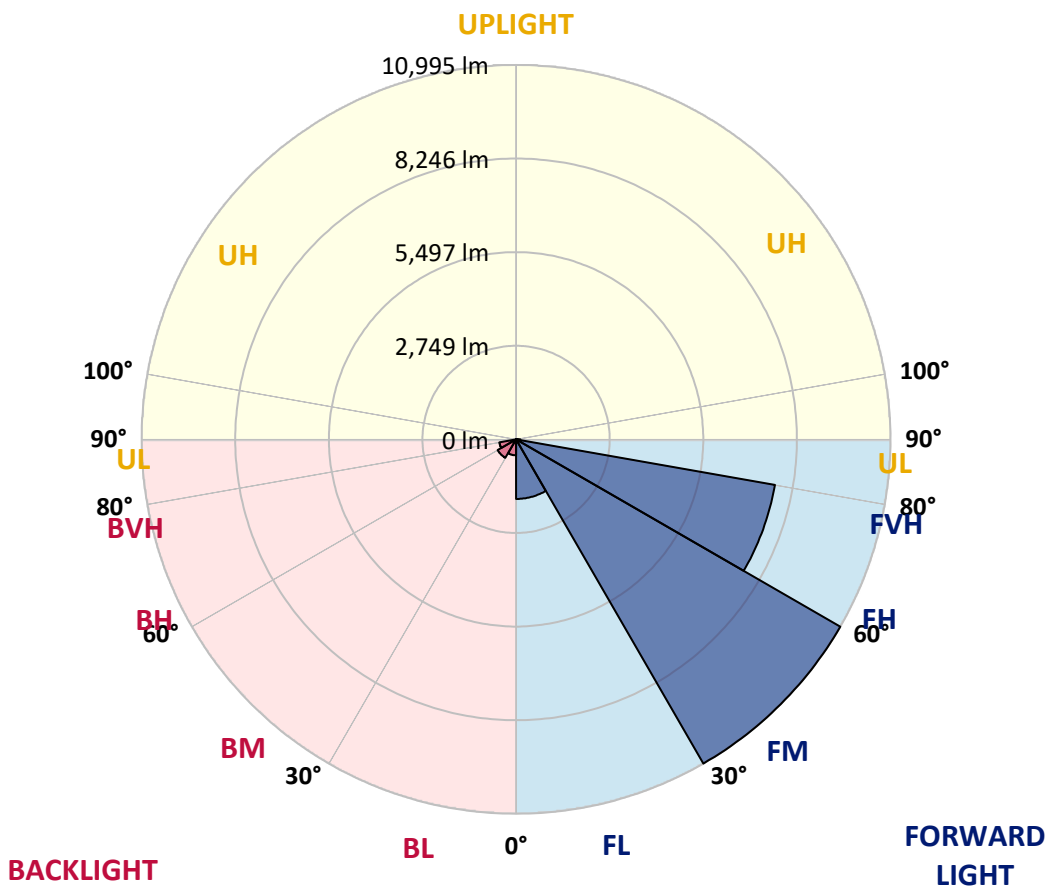
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.6	7.9			
FM (30°-60°)	10994.9	49.5			
FH (60°-80°)	7720.1	34.8			G4/12000
FVH (80°-90°)	126.8	0.6			G2/225
BL (0°-30°)	468.9	2.1	B1/500		
BM (30°-60°)	626.0	2.8	B1/1000		
BH (60°-80°)	500.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8
2.5°	3007.6	3026.7	3007.6	3011.9	2956.6	2931.2	2875.9	2799.5	2780.4	2731.5	2657.2
5°	3375.1	3392.1	3373.0	3368.7	3305.0	3258.3	3166.9	3035.2	2997.0	2901.4	2754.9
7.5°	3574.7	3585.4	3591.7	3602.4	3579.0	3540.8	3457.9	3294.4	3254.0	3099.0	2892.9
10°	3596.0	3604.5	3636.3	3700.1	3746.8	3770.1	3723.4	3572.6	3508.9	3358.1	3062.8
12.5°	3536.5	3549.2	3600.2	3706.4	3836.0	3954.9	3984.7	3853.0	3795.6	3602.4	3262.5
15°	3457.9	3468.5	3538.6	3683.1	3878.5	4097.2	4220.4	4163.1	4099.4	3897.6	3483.4
17.5°	3336.8	3351.7	3449.4	3644.8	3897.6	4209.8	4475.3	4494.4	4449.8	4231.1	3727.7
20°	3268.9	3279.5	3366.6	3568.4	3884.8	4292.7	4713.2	4893.8	4844.9	4615.5	4008.0
22.5°	3326.2	3334.7	3392.1	3549.2	3842.4	4339.4	4934.1	5293.1	5265.5	5027.6	4303.3
25°	3627.8	3655.5	3621.5	3649.1	3861.5	4364.9	5112.5	5692.4	5698.8	5458.8	4609.1
27.5°	4239.6	4203.5	4122.7	3984.7	4010.2	4432.8	5265.5	6068.3	6123.6	5879.3	4881.0
30°	4861.9	4840.7	4791.8	4577.3	4398.9	4583.7	5395.0	6452.8	6539.9	6293.5	5123.2
32.5°	5560.7	5581.9	5494.9	5237.9	4934.1	4889.5	5528.8	6818.1	6981.7	6762.9	5407.8
35°	6395.4	6401.8	6229.8	5945.2	5601.1	5395.0	5768.9	7221.7	7523.3	7361.9	5788.0
37.5°	7208.9	7247.2	7153.7	6705.6	6399.7	6023.7	6166.1	7740.0	8164.8	8101.0	6265.9
40°	7929.0	7988.5	7958.7	7525.4	7124.0	6807.5	6782.0	8347.4	8940.0	9012.2	6896.7
42.5°	8502.5	8540.7	8564.1	8256.1	7901.4	7723.0	7542.4	9052.6	9855.5	10150.7	7669.9
45°	9107.8	9120.6	9169.4	8961.3	8651.2	8666.0	8440.9	9908.6	10819.8	11412.4	8557.7
47.5°	9878.9	9921.3	9898.0	9679.2	9398.8	9566.6	9369.1	10790.1	11771.4	12759.0	9466.8
50°	10817.7	10862.3	10841.0	10586.2	10273.9	10344.0	10220.8	11646.0	12688.9	14029.2	10222.9
52.5°	11301.9	11338.1	11601.4	11716.1	11552.6	11106.5	10947.2	12587.0	13464.2	15074.2	10917.5
55°	11068.3	11093.8	11667.3	12151.6	12750.5	12304.5	11677.9	13313.4	14148.1	15889.8	11433.6
57.5°	10099.8	10237.8	11017.3	11837.2	13096.8	13487.6	12863.1	14103.5	14806.6	16457.0	11941.3
60°	8113.8	8107.4	9224.7	10696.6	12421.3	13812.5	14536.8	15171.9	15467.2	16892.4	12621.0
62.5°	4483.8	4524.2	6011.0	7950.2	10543.7	12971.4	15792.1	17017.7	16973.1	17652.8	13685.1
65°	2232.4	2313.1	3120.2	4553.9	7015.7	10720.0	16008.8	19834.2	19706.7	19443.3	15883.5
67.5°	1416.7	1448.6	1894.6	2646.5	3899.7	6890.3	14660.0	21934.8	22230.1	21567.4	18064.9
70°	917.6	970.7	1316.9	1809.7	2353.4	3551.4	10739.1	20573.3	21250.9	21333.7	16705.5
72.5°	499.1	537.4	841.1	1291.4	1699.2	1775.7	6032.2	15439.6	16529.2	18096.7	13069.1
75°	284.6	312.2	460.9	877.2	1246.8	1081.1	2674.2	10335.5	11030.1	12933.2	9364.8
77.5°	172.0	195.4	259.1	426.9	781.6	722.2	1011.0	6291.4	6733.2	7716.6	4915.0
80°	78.6	93.5	163.6	235.8	426.9	342.0	386.6	2933.3	3028.9	3166.9	1627.0
82.5°	36.1	42.5	74.3	140.2	242.1	197.5	148.7	677.6	953.7	902.7	414.2
85°	4.2	4.2	27.6	57.3	68.0	51.0	61.6	152.9	193.3	271.9	118.9
87.5°	0.0	0.0	2.1	2.1	4.2	6.4	12.7	19.1	27.6	44.6	29.7
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°	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8	2582.8
2.5°	2623.2	2563.7	2510.6	2432.0	2378.9	2319.4	2279.1	2230.2	2211.1	2196.2	2175.0
5°	2682.6	2587.1	2457.5	2313.1	2194.1	2081.5	1977.5	1909.5	1850.0	1841.5	1811.8
7.5°	2780.4	2638.0	2419.3	2183.5	1981.7	1794.8	1648.2	1529.3	1469.8	1450.7	1416.7
10°	2909.9	2714.5	2361.9	2000.8	1709.8	1486.8	1321.1	1187.3	1093.9	1059.9	1034.4
12.5°	3054.4	2784.6	2270.6	1775.7	1444.3	1189.5	979.2	836.9	777.4	756.2	737.0
15°	3220.0	2850.4	2126.2	1550.5	1185.2	875.1	726.4	664.8	639.3	633.0	626.6
17.5°	3379.3	2892.9	1954.1	1316.9	911.2	679.7	609.6	586.2	579.9	573.5	569.2
20°	3559.9	2922.7	1752.3	1096.0	707.3	575.6	541.6	524.6	511.9	499.1	497.0
22.5°	3744.7	2922.7	1533.5	879.3	592.6	516.1	477.9	446.0	422.7	409.9	405.7
25°	3921.0	2882.3	1316.9	703.1	522.5	458.8	409.9	373.8	342.0	327.1	322.9
27.5°	4046.3	2778.2	1127.9	594.7	473.7	407.8	348.3	308.0	282.5	267.6	265.5
30°	4124.9	2623.2	953.7	531.0	431.2	354.7	295.2	261.3	242.1	231.5	227.3
32.5°	4184.3	2432.0	798.6	486.4	390.8	308.0	257.0	229.4	212.4	203.9	201.8
35°	4303.3	2251.5	683.9	446.0	348.3	269.8	225.1	203.9	191.2	180.5	178.4
37.5°	4469.0	2100.7	592.6	409.9	308.0	240.0	203.9	184.8	174.2	163.6	161.4
40°	4713.2	2005.1	524.6	373.8	271.9	216.7	186.9	169.9	155.1	144.4	142.3
42.5°	5089.2	1960.5	480.0	337.7	240.0	195.4	172.0	150.8	135.9	125.3	123.2
45°	5537.3	1983.8	441.8	301.6	218.8	180.5	152.9	131.7	116.8	106.2	104.1
47.5°	6017.4	2066.7	409.9	267.6	197.5	165.7	135.9	112.6	99.8	89.2	87.1
50°	6518.6	2202.6	382.3	235.8	180.5	148.7	116.8	97.7	85.0	76.5	74.3
52.5°	6954.1	2387.4	354.7	212.4	165.7	131.7	102.0	85.0	72.2	63.7	61.6
55°	7370.4	2561.6	333.5	191.2	148.7	114.7	89.2	72.2	61.6	53.1	51.0
57.5°	7822.8	2746.4	308.0	172.0	133.8	102.0	78.6	61.6	53.1	44.6	42.5
60°	8481.2	3020.4	269.8	157.2	116.8	89.2	68.0	55.2	46.7	36.1	34.0
62.5°	9430.7	3519.5	227.3	135.9	99.8	76.5	57.3	46.7	38.2	29.7	25.5
65°	11206.4	4369.1	186.9	112.6	80.7	63.7	48.9	38.2	29.7	21.2	19.1
67.5°	12485.0	4590.0	150.8	91.3	65.8	48.9	40.4	29.7	21.2	14.9	12.7
70°	10915.4	3296.5	116.8	74.3	55.2	38.2	31.9	23.4	14.9	10.6	8.5
72.5°	8224.2	2153.8	87.1	57.3	42.5	31.9	23.4	19.1	12.7	8.5	6.4
75°	5796.5	1244.7	63.7	42.5	29.7	23.4	19.1	14.9	10.6	6.4	6.4
77.5°	2971.5	514.0	44.6	29.7	21.2	14.9	12.7	8.5	8.5	6.4	4.2
80°	902.7	169.9	25.5	19.1	14.9	10.6	6.4	6.4	6.4	4.2	2.1
82.5°	206.0	55.2	14.9	14.9	10.6	8.5	6.4	2.1	2.1	0.0	0.0
85°	53.1	17.0	12.7	10.6	10.6	8.5	4.2	2.1	0.0	0.0	0.0
87.5°	19.1	10.6	10.6	10.6	8.5	6.4	4.2	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)