

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: P637724

Luminaire Tested: GWS-SA4D-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19479.2 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

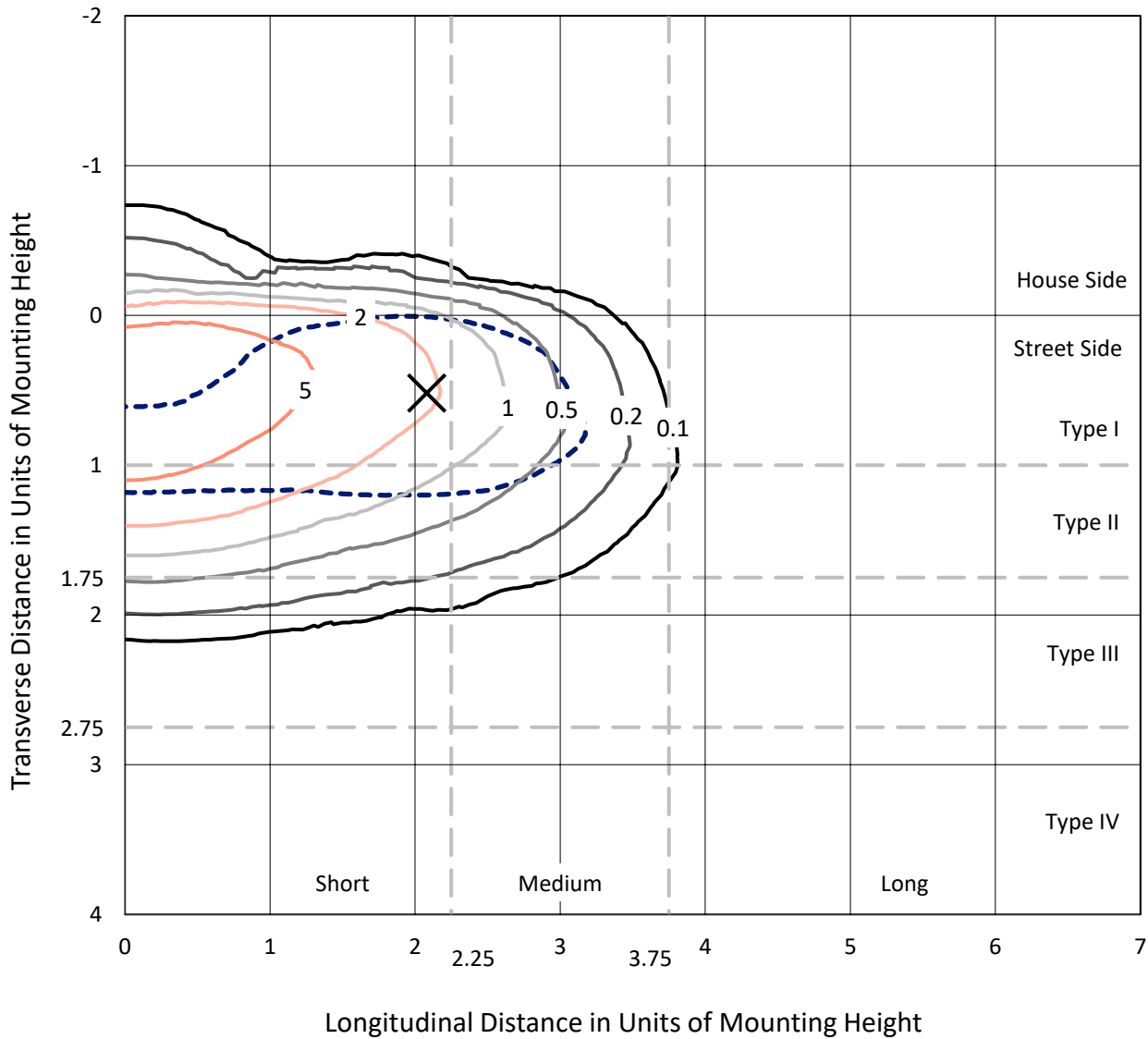
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637724
 CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

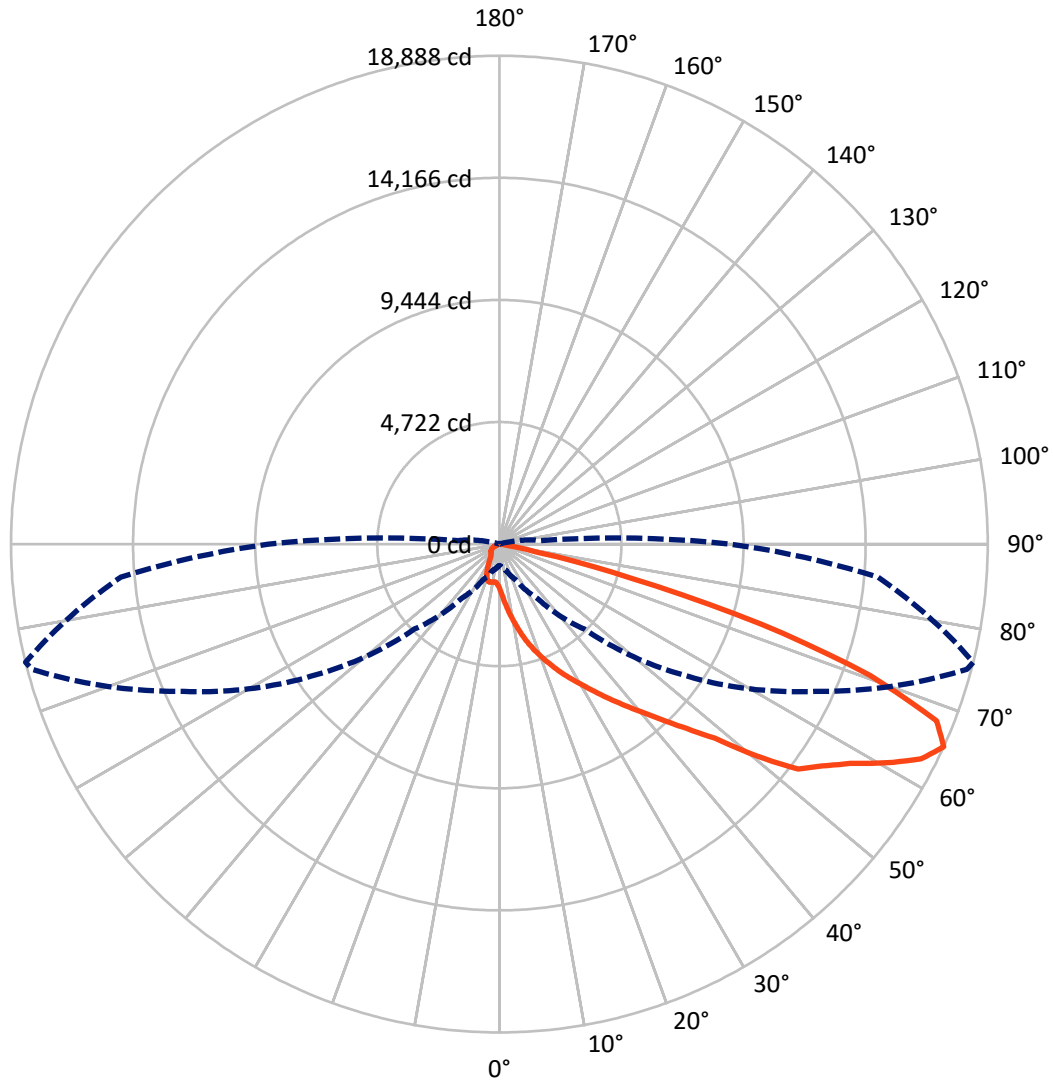
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P637724
CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P637724

CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-HSS

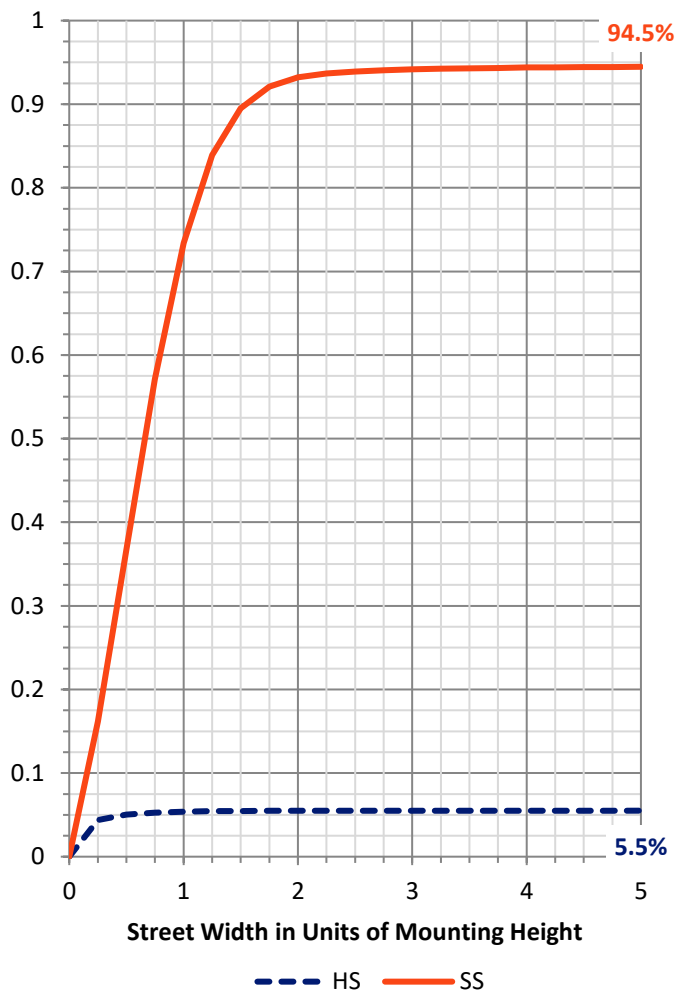
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1077.1	0.0	1077.1
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	18402.1	0.0	18402.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	19479.2	0.0	19479.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	1.1
10°-20°	796.1	4.1
20°-30°	1624.2	8.3
30°-40°	2888.7	14.8
40°-50°	4270.2	21.9
50°-60°	4889.0	25.1
60°-70°	3730.1	19.1
70°-80°	1044.9	5.4
80°-90°	26.3	0.1
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°	19479.2	100.0
0°-180°	19479.2	100.0

Coefficient of Utilization



REPORT NUMBER: P637724

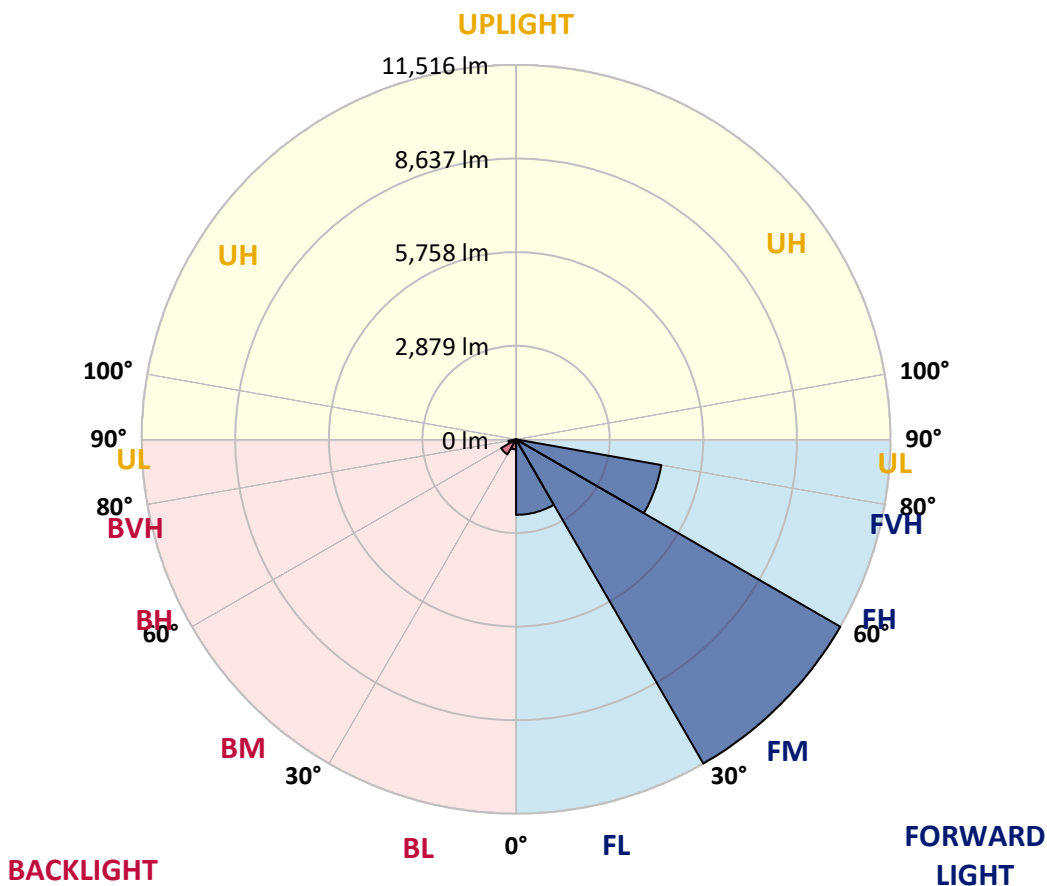
CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.8	11.9			
FM (30°-60°)	11516.4	59.1			
FH (60°-80°)	4538.2	23.3			G2/5000
FVH (80°-90°)	24.8	0.1			G1/100
BL (0°-30°)	307.4	1.6	B1/500		
BM (30°-60°)	531.4	2.7	B1/1000		
BH (60°-80°)	236.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P637724

CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6
2.5°	2657.9	2697.7	2666.6	2614.6	2514.2	2417.2	2292.6	2121.1	1984.4	1967.0	1838.9
5°	3589.5	3586.0	3518.5	3451.0	3345.3	3179.1	2928.0	2609.4	2303.0	2277.0	1989.5
7.5°	4143.6	4148.8	4110.7	4058.7	3954.9	3783.4	3522.0	3137.6	2689.1	2637.1	2195.6
10°	4609.4	4607.6	4579.9	4555.7	4462.2	4347.9	4067.4	3644.9	3104.7	3023.3	2425.9
12.5°	4959.1	4971.3	4985.1	5009.4	4969.5	4857.0	4592.1	4131.5	3525.4	3435.4	2689.1
15°	5236.2	5239.7	5291.6	5385.1	5418.0	5359.1	5118.4	4602.4	3941.0	3863.1	2992.1
17.5°	5319.3	5326.2	5414.5	5586.0	5759.1	5792.0	5610.2	5076.9	4349.6	4266.5	3286.5
20°	5494.2	5509.8	5575.6	5726.2	5944.4	6121.0	6050.0	5556.5	4758.3	4649.2	3587.8
22.5°	6044.8	6053.5	6031.0	6050.0	6162.6	6366.9	6410.2	6020.6	5177.3	5061.3	3913.3
25°	6992.0	6995.4	6837.9	6689.0	6604.1	6642.2	6737.4	6448.3	5592.9	5478.6	4216.3
27.5°	7975.5	7987.6	7798.9	7546.1	7243.1	7069.9	7042.2	6839.6	6011.9	5885.5	4515.9
30°	8901.9	8901.9	8702.7	8394.5	7989.4	7651.7	7452.6	7234.4	6460.4	6321.9	4822.4
32.5°	9734.8	9727.8	9473.3	9139.1	8739.1	8368.6	7949.5	7646.5	6959.1	6805.0	5175.6
35°	10422.2	10404.9	10115.7	9795.4	9367.7	9092.3	8624.8	8089.8	7499.3	7345.2	5539.2
37.5°	10941.6	10922.6	10657.7	10318.3	9921.8	9743.4	9352.1	8621.4	8069.0	7928.7	5942.7
40°	11223.9	11185.8	11002.2	10749.4	10417.0	10261.1	10098.4	9281.1	8739.1	8564.2	6418.8
42.5°	11307.0	11262.0	11140.8	11023.0	10822.2	10699.2	10874.1	10025.7	9475.0	9324.4	6962.5
45°	11061.1	11035.1	11024.8	11109.6	11146.0	11180.6	11611.7	10849.9	10287.1	10172.8	7646.5
47.5°	10468.9	10462.0	10553.8	10907.0	11291.4	11656.8	12413.5	11866.3	11339.9	11217.0	8602.3
50°	9374.6	9445.6	9701.9	10321.7	11090.6	11926.9	13163.2	13275.8	13043.7	12863.7	9849.0
52.5°	7663.8	7800.6	8375.5	9317.4	10422.2	11850.7	13509.5	14404.7	14642.0	14454.9	10742.5
55°	6013.7	6141.8	6654.3	7849.1	9322.6	11270.6	13525.1	14794.3	15312.1	15138.9	11346.8
57.5°	4479.5	4597.3	5063.0	6205.9	7826.6	10129.5	13154.6	15010.8	16106.8	15996.0	12300.9
60°	2928.0	3044.1	3464.8	4463.9	6070.8	8467.3	12242.0	14965.8	17189.1	17178.7	13473.2
62.5°	1624.2	1716.0	2020.7	2799.9	4237.1	6557.4	10808.3	14513.8	18236.6	18302.4	14439.4
65°	831.1	890.0	1075.3	1539.3	2564.4	4649.2	8922.7	13478.4	18721.5	18887.7	14693.9
67.5°	543.7	562.8	607.8	800.0	1373.1	2924.6	6714.9	11817.8	18039.2	18233.2	13840.2
70°	441.5	457.1	483.1	533.3	708.2	1553.2	4410.2	9438.7	15073.1	15204.7	11021.3
72.5°	323.8	344.6	394.8	427.7	510.8	851.9	2294.3	6195.5	10351.2	10583.2	6926.2
75°	239.0	251.1	292.6	337.7	417.3	538.5	877.9	3257.0	5345.3	5210.2	2909.0
77.5°	143.7	152.4	187.0	216.4	297.8	335.9	306.5	1203.4	1625.9	1529.0	703.0
80°	71.0	79.7	122.9	162.8	190.5	135.1	128.1	335.9	361.9	361.9	176.6
82.5°	24.2	31.2	65.8	107.4	93.5	51.9	60.6	86.6	97.0	102.2	51.9
85°	0.0	0.0	15.6	31.2	13.9	6.9	15.6	19.0	24.2	26.0	17.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637724

CATALOG NUMBER: GWS-SA4D-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6	1724.6
2.5°	1769.6	1688.3	1565.3	1454.5	1369.7	1290.0	1229.4	1180.9	1172.3	1144.6	1148.0
5°	1849.3	1702.1	1475.3	1300.4	1177.5	1094.3	1025.1	973.1	950.6	928.1	910.8
7.5°	1972.2	1759.3	1440.6	1227.7	1083.9	955.8	848.5	761.9	720.3	694.3	677.0
10°	2122.9	1838.9	1442.4	1184.4	971.4	775.7	628.6	533.3	488.3	474.4	472.7
12.5°	2303.0	1939.3	1456.2	1113.4	808.6	576.6	465.8	422.5	408.6	396.5	396.5
15°	2493.4	2051.9	1456.2	983.5	616.4	450.2	403.5	375.7	358.4	351.5	348.0
17.5°	2694.3	2157.5	1421.6	805.2	472.7	396.5	358.4	332.5	318.6	308.2	304.8
20°	2909.0	2257.9	1335.0	616.4	405.2	355.0	318.6	292.6	278.8	268.4	268.4
22.5°	3127.2	2351.4	1194.8	474.4	358.4	315.1	280.5	256.3	242.4	232.0	232.0
25°	3329.8	2413.8	1014.7	391.3	323.8	280.5	249.3	225.1	209.5	202.6	199.1
27.5°	3518.5	2453.6	815.6	344.6	290.9	251.1	218.2	195.7	183.5	178.3	174.9
30°	3714.2	2464.0	623.4	313.4	263.2	221.6	190.5	173.2	162.8	155.8	155.8
32.5°	3904.6	2451.9	476.2	287.4	239.0	195.7	169.7	154.1	145.4	140.3	138.5
35°	4098.6	2396.5	386.1	264.9	214.7	171.4	150.6	138.5	133.3	126.4	126.4
37.5°	4309.8	2322.0	335.9	242.4	190.5	154.1	135.1	126.4	119.5	114.3	112.6
40°	4573.0	2235.4	308.2	223.4	168.0	138.5	121.2	112.6	107.4	102.2	100.4
42.5°	4884.7	2150.6	294.4	202.6	150.6	122.9	109.1	98.7	93.5	86.6	84.8
45°	5326.2	2131.5	278.8	180.1	135.1	110.8	95.2	84.8	77.9	72.7	71.0
47.5°	6036.2	2185.2	252.8	155.8	119.5	97.0	81.4	72.7	64.1	58.9	55.4
50°	6740.9	2171.4	226.8	135.1	105.6	83.1	69.3	60.6	51.9	46.8	45.0
52.5°	7125.3	2105.6	202.6	119.5	91.8	71.0	58.9	48.5	43.3	38.1	36.4
55°	7473.4	2079.6	178.3	103.9	77.9	62.3	48.5	39.8	36.4	31.2	29.4
57.5°	8155.6	2140.2	157.6	90.0	67.5	53.7	41.6	32.9	29.4	24.2	22.5
60°	8869.0	2147.1	135.1	77.9	58.9	45.0	32.9	26.0	22.5	17.3	15.6
62.5°	9241.3	1972.2	110.8	65.8	48.5	38.1	27.7	20.8	17.3	10.4	10.4
65°	8929.6	1594.8	93.5	53.7	38.1	29.4	20.8	15.6	10.4	5.2	1.7
67.5°	7902.8	1134.2	77.9	43.3	27.7	20.8	15.6	10.4	1.7	0.0	0.0
70°	5786.8	647.6	60.6	31.2	20.8	13.9	10.4	5.2	0.0	0.0	0.0
72.5°	3556.6	346.3	45.0	20.8	15.6	10.4	8.7	3.5	0.0	0.0	0.0
75°	1348.9	166.2	27.7	13.9	12.1	8.7	5.2	1.7	0.0	0.0	0.0
77.5°	365.4	81.4	15.6	10.4	8.7	5.2	3.5	0.0	0.0	0.0	0.0
80°	95.2	38.1	10.4	6.9	5.2	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	17.3	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
85°	13.9	6.9	3.5	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.7	1.7	1.7	1.7	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)