

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: P637362

Luminaire Tested: GWS-SA4C-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14749.8 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

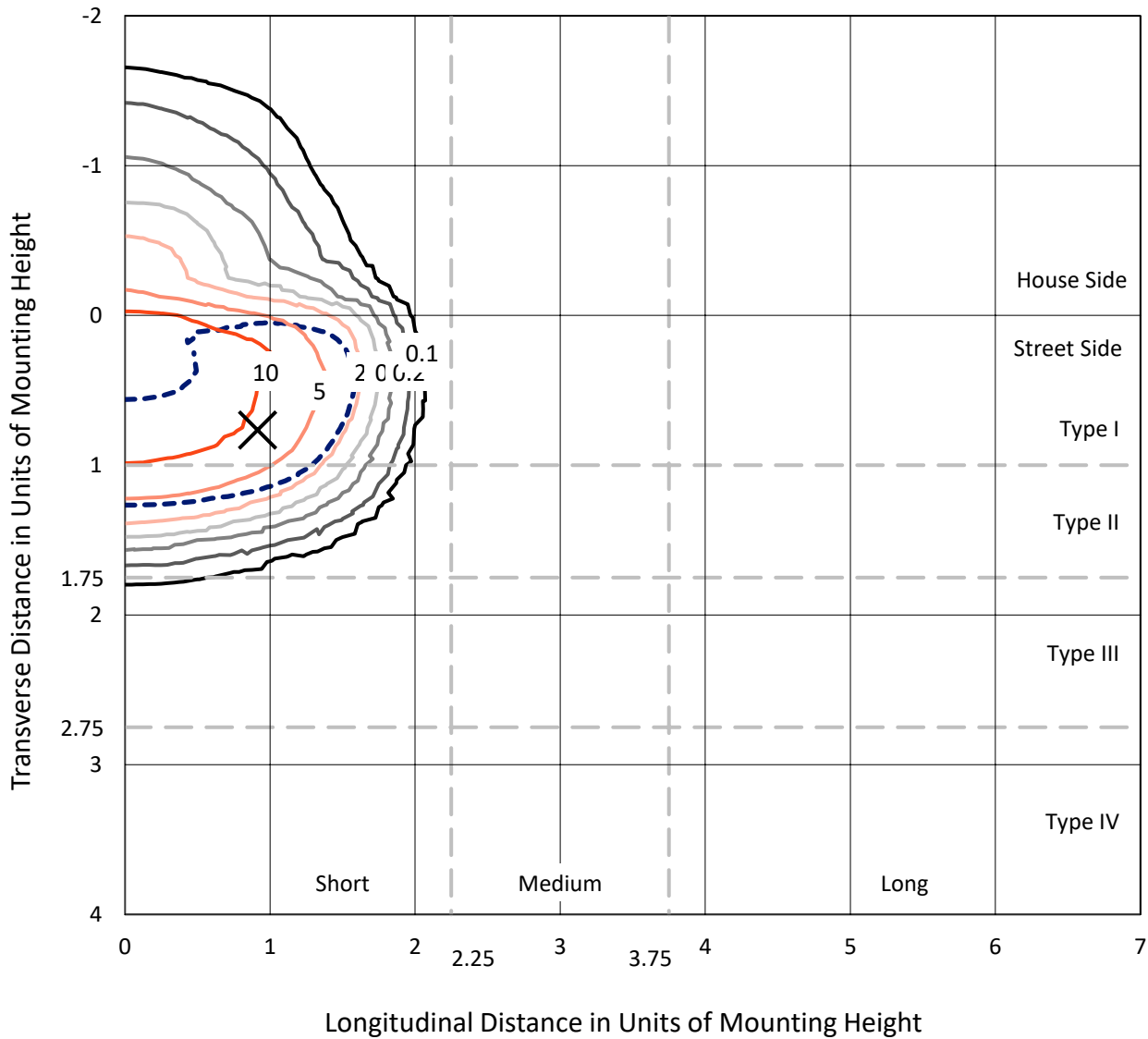
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

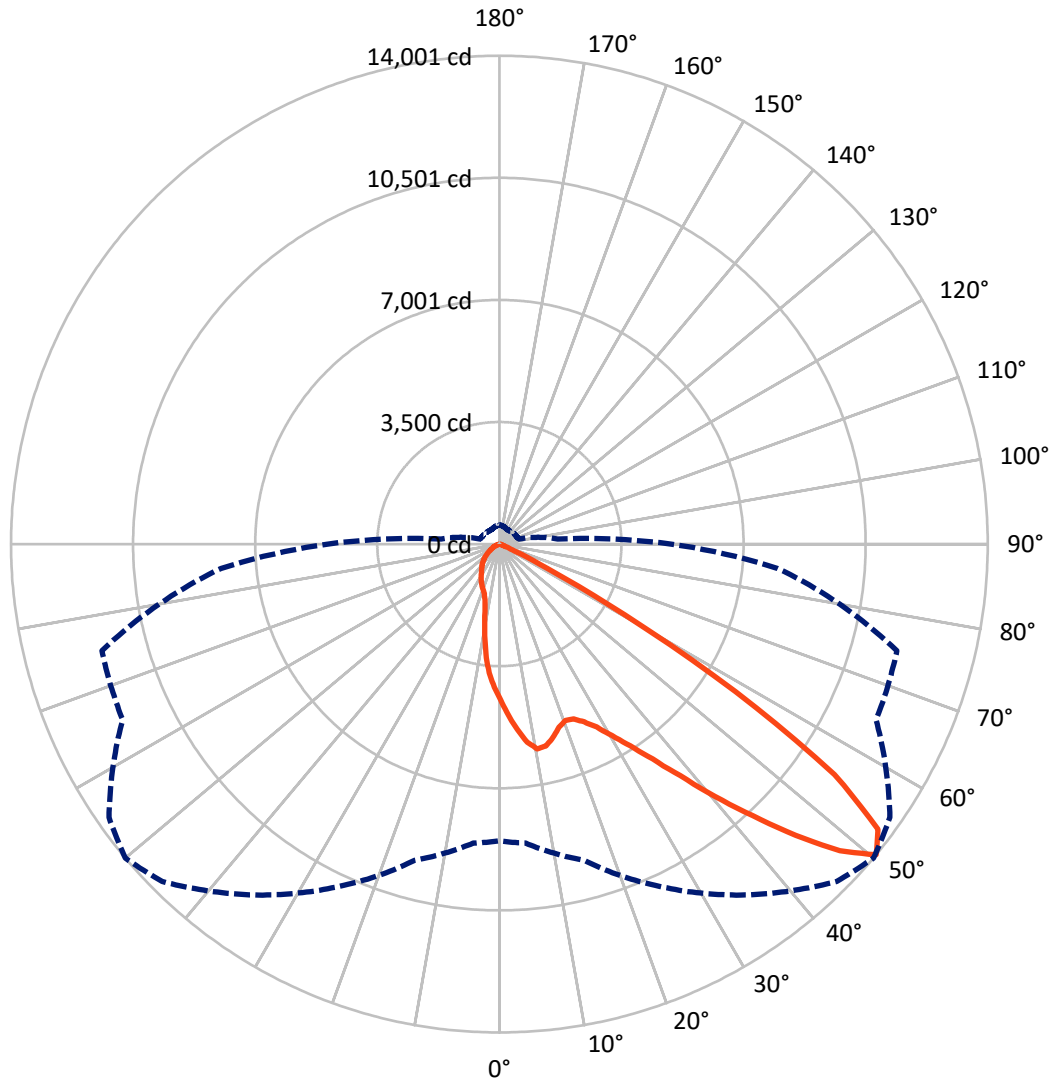
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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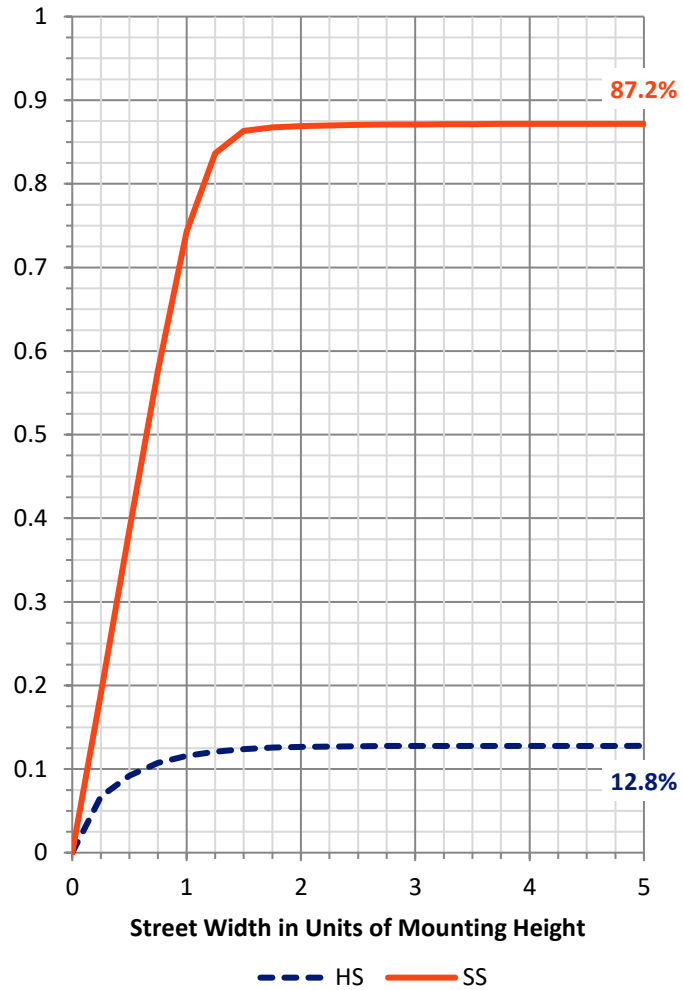
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1895.1	0.0	1895.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12854.7	0.0	12854.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	14749.8	0.0	14749.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.5	2.8
10°-20°	1069.5	7.3
20°-30°	1765.1	12.0
30°-40°	2912.8	19.7
40°-50°	4608.7	31.2
50°-60°	3489.3	23.7
60°-70°	436.7	3.0
70°-80°	49.4	0.3
80°-90°	3.8	0.0
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°	14749.8	100.0
0°-180°	14749.8	100.0

Coefficient of Utilization



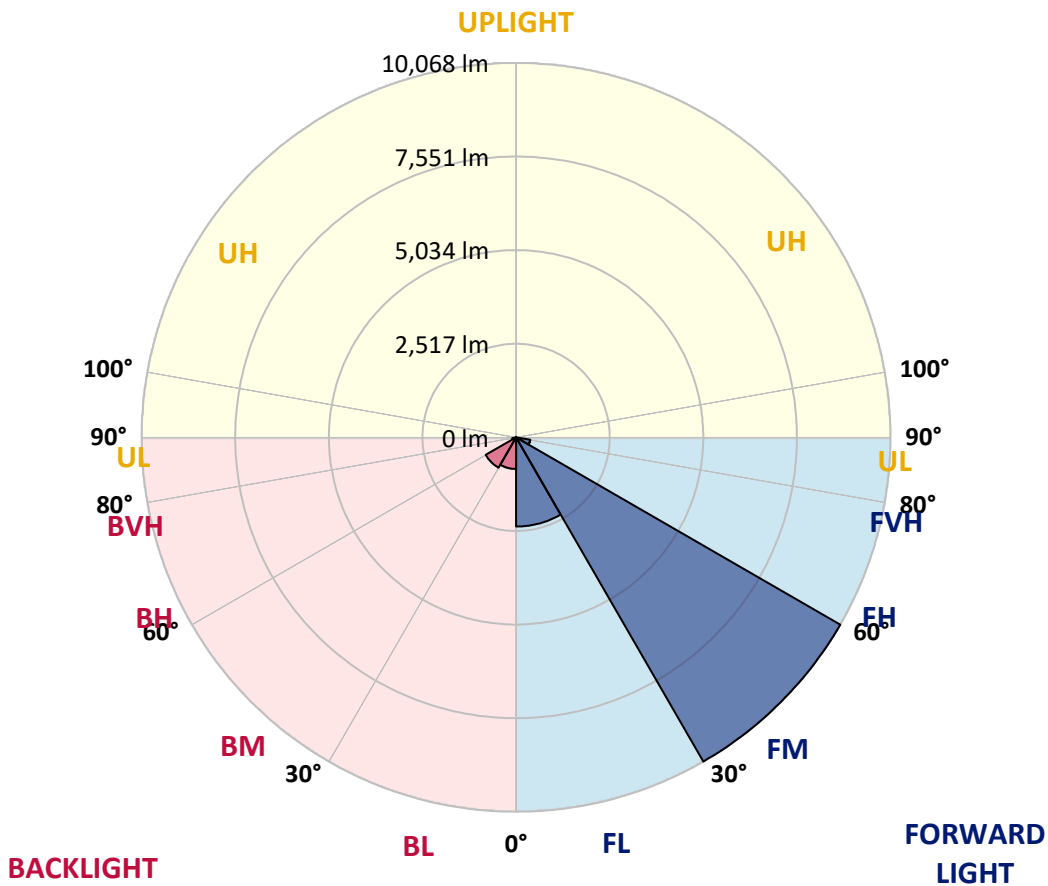
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2398.5	16.3			
FM (30°-60°)	10068.3	68.3			
FH (60°-80°)	386.1	2.6			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	850.6	5.8	B2/1000		
BM (30°-60°)	942.5	6.4	B1/1000		
BH (60°-80°)	100.0	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6
2.5°	5091.9	5132.6	5121.4	5068.1	5010.5	4969.8	4906.6	4887.0	4743.8	4644.1	4538.8
5°	5706.8	5719.5	5705.4	5640.9	5539.8	5442.9	5339.0	5278.7	5038.6	4822.4	4602.0
7.5°	5854.2	5838.8	5865.5	5897.8	5883.7	5841.6	5732.1	5666.1	5379.7	5027.4	4693.2
10°	5393.8	5358.7	5458.4	5625.4	5800.9	5998.9	5970.8	5976.4	5712.5	5285.7	4812.6
12.5°	4783.1	4769.0	4843.4	5037.2	5381.1	5830.4	5938.5	6119.6	6017.1	5565.0	4948.7
15°	4514.9	4522.0	4566.9	4689.0	4936.1	5494.9	5754.6	6081.7	6289.5	5836.0	5099.0
17.5°	4555.6	4580.9	4579.5	4620.2	4770.4	5218.3	5521.5	5962.3	6500.0	6147.7	5271.6
20°	4832.2	4857.5	4819.6	4788.7	4839.2	5148.1	5399.4	5841.6	6641.8	6462.1	5454.1
22.5°	5246.4	5275.8	5186.0	5097.5	5065.3	5263.2	5445.7	5792.5	6749.9	6749.9	5617.0
25°	5747.6	5788.3	5649.3	5492.0	5402.2	5506.1	5643.7	5903.4	6860.8	7008.3	5727.9
27.5°	6307.7	6309.1	6189.8	6012.9	5844.4	5857.1	5939.9	6153.3	6983.0	7286.2	5814.9
30°	6938.1	6942.3	6783.6	6571.6	6359.7	6302.1	6372.3	6533.7	7237.1	7635.8	5935.7
32.5°	7752.3	7772.0	7544.5	7232.9	6957.7	6849.6	6890.3	7060.2	7641.4	8073.8	6116.8
35°	8853.0	8874.0	8538.5	8127.2	7689.1	7526.3	7567.0	7738.3	8226.8	8695.7	6406.0
37.5°	9939.6	9967.7	9627.9	9244.7	8643.8	8374.2	8416.4	8579.2	9105.7	9554.9	6869.3
40°	10690.7	10728.6	10623.3	10365.0	9807.6	9453.8	9504.4	9563.3	10073.0	10582.6	7470.1
42.5°	11086.6	11139.9	11184.8	11316.8	11023.4	10727.2	10641.5	10645.7	11057.1	11629.9	8094.9
45°	11110.4	11162.4	11392.6	11902.2	12125.5	12063.7	11907.9	11802.6	11808.2	12327.6	8485.2
47.5°	10338.3	10435.2	10866.2	11864.3	12703.9	13216.3	13137.7	12887.8	12124.1	12373.9	8443.0
50°	8509.0	8604.5	9387.9	10824.0	12282.7	13676.8	14001.1	13665.5	11917.7	11796.9	8009.2
52.5°	6180.0	6189.8	6698.0	8375.6	10575.6	12827.4	13591.1	13558.8	11603.2	11097.8	7416.8
55°	2935.5	2900.5	3471.8	4726.9	7314.3	10374.8	11662.2	12027.2	11156.8	10592.4	6957.7
57.5°	855.0	871.8	1125.9	1844.7	3658.6	6630.6	7986.8	8666.3	9157.6	8708.4	5396.6
60°	383.3	384.7	428.2	561.6	1218.6	3084.4	4128.9	4969.8	5475.2	5073.7	2677.2
62.5°	278.0	279.4	296.2	317.3	414.1	1044.5	1548.5	2063.7	2101.6	1375.8	678.1
65°	231.6	231.6	234.5	234.5	248.5	373.4	470.3	606.5	511.0	379.1	265.3
67.5°	186.7	188.1	190.9	190.9	186.7	186.7	202.2	221.8	237.3	293.4	244.3
70°	146.0	144.6	144.6	146.0	141.8	120.7	130.6	148.8	162.9	228.8	212.0
72.5°	113.7	115.1	113.7	108.1	98.3	71.6	77.2	96.9	103.9	143.2	143.2
75°	85.6	87.0	81.4	61.8	40.7	22.5	29.5	47.7	60.4	70.2	51.9
77.5°	11.2	11.2	8.4	8.4	7.0	8.4	8.4	11.2	16.8	16.8	12.6
80°	1.4	1.4	1.4	2.8	4.2	5.6	5.6	5.6	5.6	7.0	7.0
82.5°	1.4	1.4	1.4	1.4	4.2	4.2	5.6	5.6	5.6	5.6	5.6
85°	0.0	0.0	0.0	1.4	2.8	4.2	4.2	5.6	5.6	5.6	5.6
87.5°	0.0	0.0	0.0	1.4	2.8	4.2	4.2	4.2	5.6	5.6	5.6
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°	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6	4468.6
2.5°	4475.6	4394.2	4295.9	4228.5	4133.1	4069.9	3980.0	3919.7	3867.7	3827.0	3849.5
5°	4477.0	4347.9	4147.1	3975.8	3789.1	3617.8	3433.9	3289.3	3158.8	3099.8	3132.1
7.5°	4505.1	4319.8	4012.3	3707.7	3349.7	2995.9	2664.6	2395.0	2261.7	2198.5	2218.2
10°	4559.9	4307.2	3862.1	3356.7	2775.5	2292.6	1971.1	1788.6	1714.2	1674.8	1681.9
12.5°	4610.4	4298.7	3667.0	2894.8	2190.1	1778.7	1611.7	1586.4	1601.8	1603.2	1601.8
15°	4679.2	4283.3	3425.5	2420.3	1752.1	1537.3	1541.5	1578.0	1614.5	1625.7	1622.9
17.5°	4752.2	4259.4	3113.8	1965.5	1486.7	1467.1	1516.2	1565.3	1601.8	1607.5	1608.9
20°	4828.0	4210.3	2758.7	1604.7	1363.2	1413.7	1468.5	1505.0	1531.7	1540.1	1542.9
22.5°	4863.1	4106.4	2348.7	1346.3	1280.4	1347.7	1388.5	1436.2	1444.6	1413.7	1419.3
25°	4844.8	3930.9	1948.6	1172.3	1197.5	1264.9	1325.3	1301.4	1266.3	1243.9	1250.9
27.5°	4787.3	3697.9	1556.9	1044.5	1109.1	1194.7	1201.7	1175.1	1169.4	1151.2	1156.8
30°	4725.5	3429.7	1252.3	942.0	1019.2	1109.1	1088.0	1097.8	1099.3	1078.2	1085.2
32.5°	4687.6	3148.9	996.8	873.2	961.7	978.5	1020.6	1040.3	1041.7	992.6	1001.0
35°	4700.2	2872.4	843.7	817.1	908.3	904.1	963.1	974.3	892.9	825.5	832.5
37.5°	4802.7	2616.9	756.7	773.5	815.7	848.0	892.9	818.5	800.2	769.3	773.5
40°	4993.7	2399.3	704.8	746.9	752.5	804.4	735.6	745.5	746.9	727.2	731.4
42.5°	5216.9	2218.2	673.9	731.4	717.4	725.8	657.0	676.7	697.7	689.3	690.7
45°	5329.2	2041.3	647.2	678.1	682.3	602.3	586.8	607.9	634.6	638.8	640.2
47.5°	5229.5	1872.8	619.1	600.9	628.9	548.9	530.7	537.7	568.6	585.4	588.2
50°	4924.9	1679.1	577.0	532.1	516.6	492.8	475.9	477.3	512.4	541.9	547.5
52.5°	4496.7	1476.9	508.2	450.7	415.6	433.8	438.0	429.6	461.9	491.4	497.0
55°	4081.1	1224.2	402.9	366.4	334.1	373.4	384.7	373.4	383.3	402.9	404.3
57.5°	2873.8	692.1	308.9	303.2	276.6	320.1	338.3	321.5	304.6	317.3	320.1
60°	1332.3	362.2	237.3	237.3	230.2	275.2	306.0	282.2	249.9	255.5	259.7
62.5°	417.0	228.8	174.1	164.3	188.1	234.5	259.7	235.9	197.9	197.9	203.6
65°	235.9	196.5	137.6	126.4	153.0	188.1	203.6	178.3	144.6	141.8	141.8
67.5°	219.0	186.7	122.1	102.5	108.1	120.7	126.4	109.5	99.7	98.3	99.7
70°	181.1	155.8	98.3	70.2	66.0	64.6	67.4	63.2	60.4	61.8	66.0
72.5°	112.3	94.1	61.8	42.1	36.5	35.1	35.1	35.1	33.7	33.7	33.7
75°	40.7	35.1	28.1	21.1	18.3	16.8	16.8	18.3	16.8	15.4	14.0
77.5°	12.6	11.2	11.2	11.2	9.8	8.4	7.0	7.0	5.6	4.2	4.2
80°	7.0	7.0	7.0	7.0	5.6	5.6	4.2	2.8	1.4	1.4	0.0
82.5°	7.0	7.0	7.0	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
85°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	2.8	1.4	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)