

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324958

Luminaire Tested: **GAN-SA4B-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14995 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

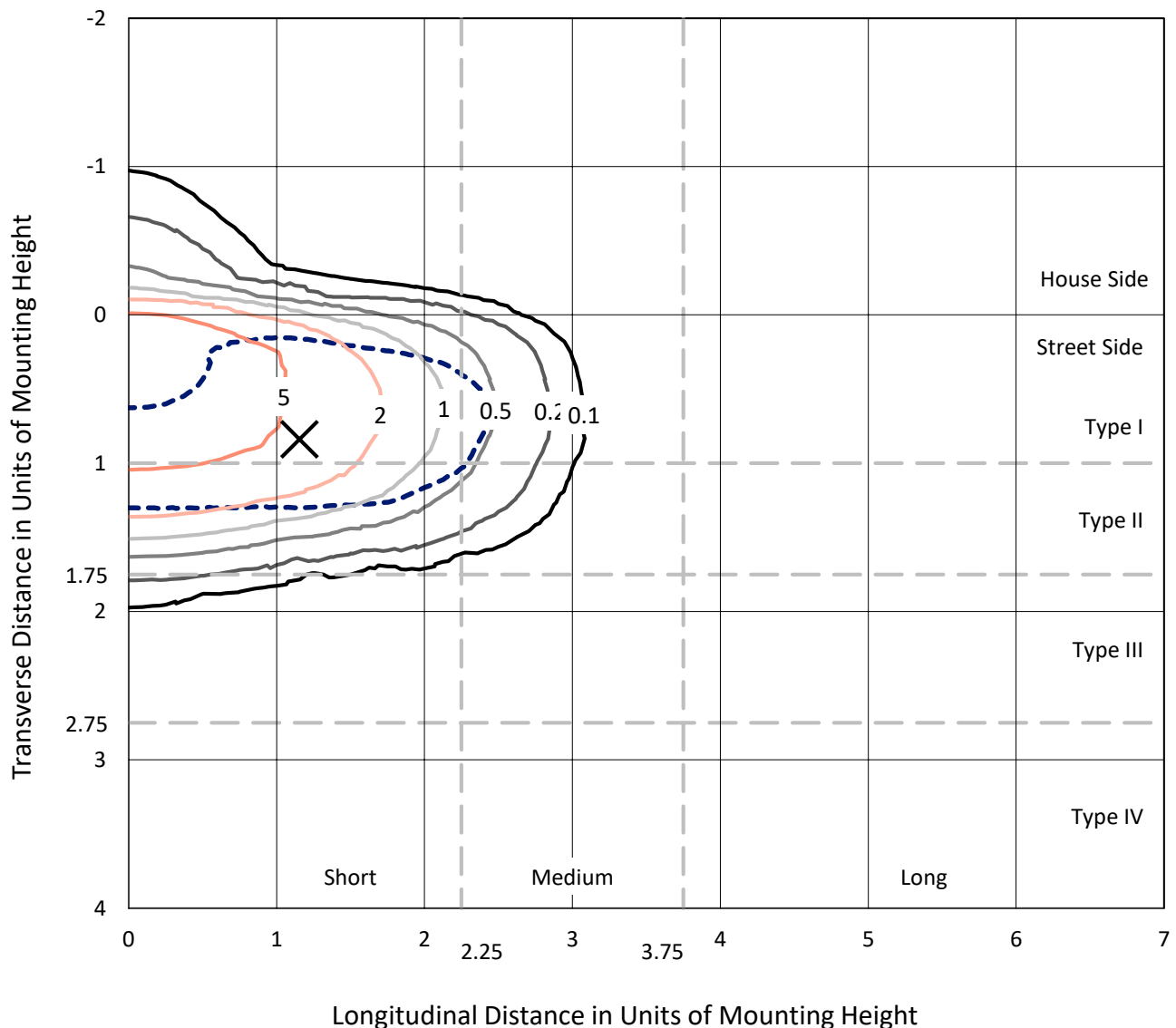
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

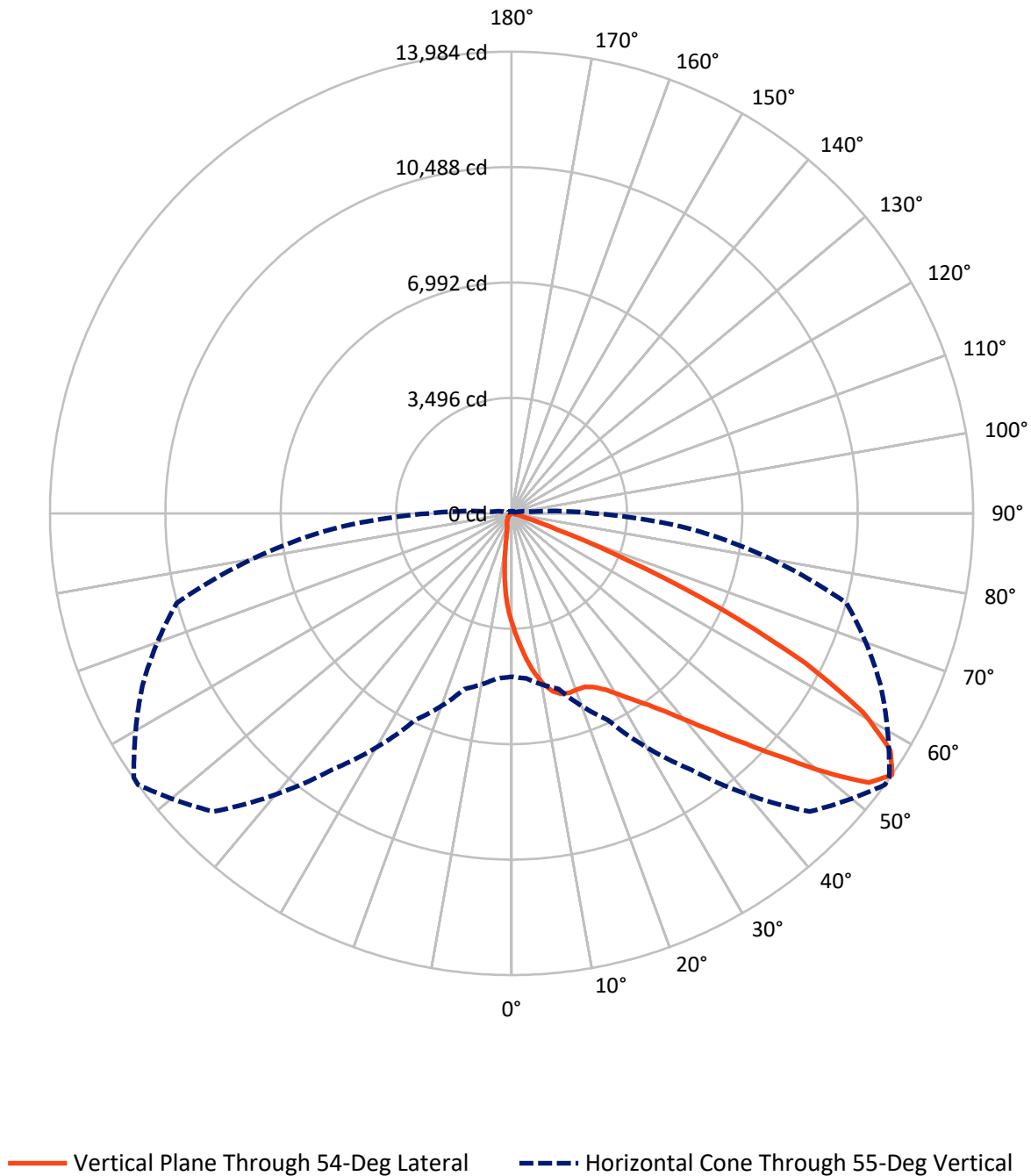
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.1	0.0	748.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14246.9	0.0	14246.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	14995.0	0.0	14995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	2.1
10°-20°	848.2	5.7
20°-30°	1448.1	9.7
30°-40°	2323.9	15.5
40°-50°	3713.6	24.8
50°-60°	3979.3	26.5
60°-70°	2043.1	13.6
70°-80°	309.5	2.1
80°-90°	20.1	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°	14995.0	100.0
0°-180°	14995.0	100.0

Coefficient of Utilization



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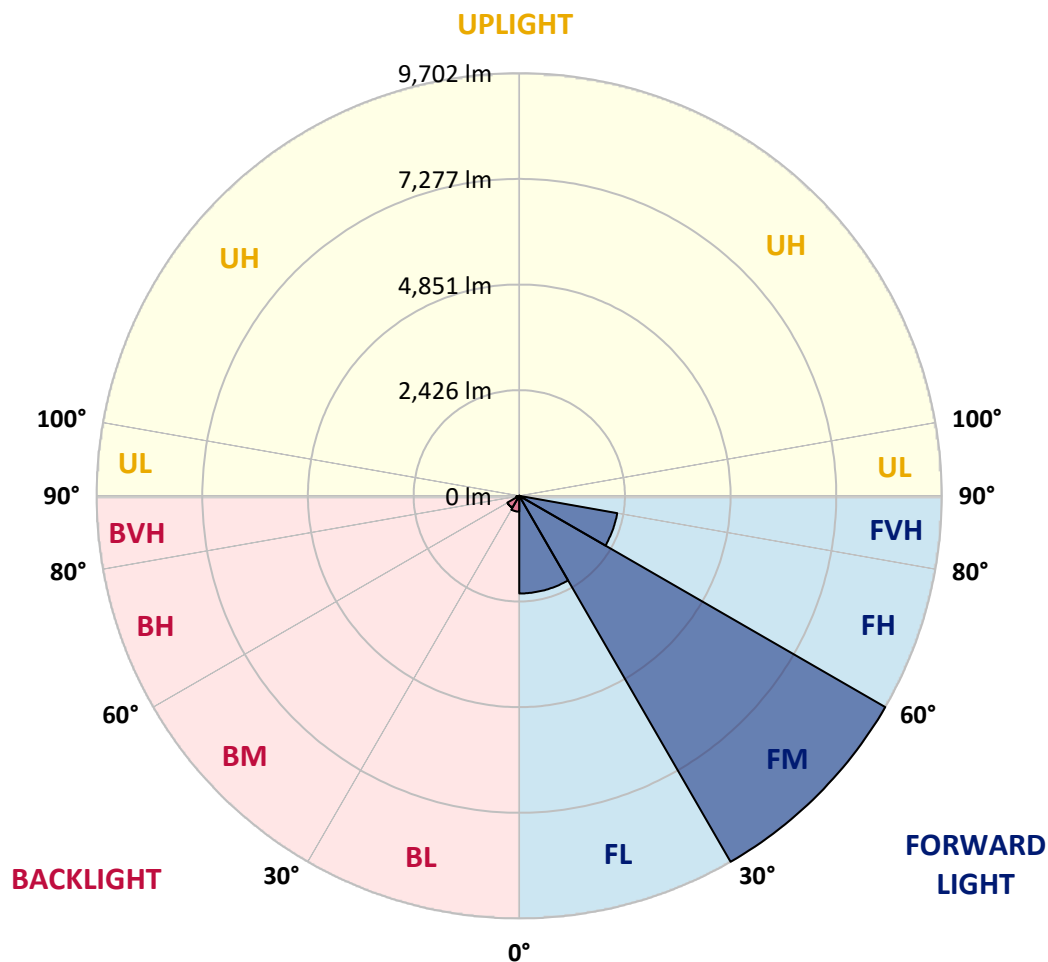
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2241.5	14.9			
FM	(30°-60°)	9702.4	64.7			
FH	(60°-80°)	2283.6	15.2			G2/5000
FVH	(80°-90°)	19.3	0.1			G1/100
BL	(0°-30°)	364.0	2.4	B1/500		
BM	(30°-60°)	314.4	2.1	B1/1000		
BH	(60°-80°)	68.9	0.5	B0/110		G0/110
BVH	(80°-90°)	0.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3
2.5°	4214.4	4151.5	4153.5	4125.0	4020.7	3939.1	3854.3	3834.2	3702.1	3563.6	3430.2
5°	4942.9	4896.9	4885.9	4830.8	4685.8	4532.3	4367.8	4329.6	4071.2	3787.6	3508.5
7.5°	5317.2	5317.8	5308.7	5288.7	5198.0	5049.1	4848.3	4808.2	4456.6	4031.1	3590.1
10°	5208.4	5233.0	5283.5	5350.2	5419.5	5400.7	5249.8	5213.6	4831.5	4288.8	3680.8
12.5°	4954.5	4957.8	5014.1	5123.5	5323.0	5527.6	5530.2	5517.9	5189.6	4558.2	3780.5
15°	4828.3	4840.6	4861.3	4931.9	5121.0	5448.6	5683.0	5700.5	5517.9	4844.4	3886.7
17.5°	4911.1	4928.6	4911.1	4919.6	5029.0	5323.6	5709.6	5754.3	5804.8	5127.4	3987.1
20°	5135.8	5152.0	5121.0	5086.6	5108.0	5287.4	5690.8	5751.0	6029.5	5378.7	4071.2
22.5°	5438.9	5445.4	5398.1	5341.8	5326.2	5410.4	5706.4	5768.5	6209.5	5606.0	4124.3
25°	5772.4	5778.2	5719.3	5654.5	5617.6	5652.0	5833.9	5880.5	6368.2	5822.9	4154.8
27.5°	6135.7	6140.9	6067.0	5987.4	5944.7	5946.0	6044.4	6094.2	6537.2	6070.3	4179.4
30°	6519.7	6517.1	6449.1	6338.4	6284.0	6282.7	6347.4	6398.0	6782.0	6387.6	4213.1
32.5°	6951.0	6945.8	6849.3	6712.0	6650.5	6659.6	6717.2	6746.3	7085.7	6725.6	4273.3
35°	7518.9	7504.0	7358.3	7188.0	7074.7	7071.4	7120.0	7143.3	7472.9	7134.9	4373.7
37.5°	8255.8	8242.2	8044.7	7797.3	7638.0	7578.5	7636.1	7665.9	8025.3	7660.1	4534.9
40°	8982.4	8968.8	8851.6	8624.9	8379.5	8236.4	8281.7	8313.5	8714.9	8297.3	4738.2
42.5°	9483.6	9495.3	9536.1	9554.8	9325.0	9024.5	9045.2	9078.2	9439.6	8978.5	4970.7
45°	9615.7	9641.0	9871.5	10324.1	10410.3	10175.9	9958.9	9977.1	10175.9	9659.7	5203.2
47.5°	9218.8	9265.4	9710.3	10552.1	11281.3	11447.0	11036.5	11012.5	10882.3	10210.8	5368.3
50°	8316.7	8359.4	8935.8	10181.0	11545.5	12660.6	12327.7	12257.1	11502.1	10540.4	5426.6
52.5°	7011.2	7063.0	7531.2	9012.8	11047.5	13201.9	13550.3	13491.4	11956.7	10566.3	5436.3
55°	4951.3	5014.1	5509.5	6907.6	9469.4	12771.3	13983.5	13966.1	12334.2	10497.7	5457.0
57.5°	2782.6	2827.9	3362.2	4428.1	6935.4	11123.9	13530.9	13646.8	12562.1	10378.5	5488.1
60°	1235.6	1247.9	1524.4	2204.3	4060.2	8501.2	12235.1	12430.7	12366.6	10219.2	5540.6
62.5°	685.1	674.8	674.8	916.3	1764.6	5262.8	9977.1	10300.2	11531.9	10030.8	5543.2
65°	536.8	527.1	499.3	503.2	672.2	2335.8	6908.9	7483.3	9946.6	9478.4	5356.7
67.5°	455.2	446.8	419.0	408.0	417.7	770.6	3796.0	4392.4	7547.4	8042.8	4639.8
70°	384.7	378.8	364.6	351.0	326.4	380.8	1452.5	1857.9	4650.8	5350.2	3167.2
72.5°	309.5	306.9	312.1	300.5	270.7	253.8	496.7	601.6	2089.0	2387.6	1304.8
75°	266.8	265.5	268.1	256.4	222.8	176.8	252.6	275.9	589.3	584.1	264.2
77.5°	173.5	175.5	222.1	216.9	191.7	117.9	130.8	141.2	178.7	134.0	80.3
80°	110.7	109.4	112.7	180.0	172.3	90.0	65.4	68.6	86.1	66.1	38.9
82.5°	67.3	66.1	73.8	84.2	86.8	62.8	40.1	40.8	53.7	42.7	20.7
85°	5.8	7.8	44.7	41.4	29.8	19.4	19.4	20.7	28.5	25.3	11.7
87.5°	0.0	0.0	7.8	11.7	6.5	7.1	7.1	7.8	11.0	11.0	5.8
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°	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3	3358.3
2.5°	3360.9	3293.5	3157.5	3026.7	2916.0	2809.1	2687.4	2567.0	2510.6	2487.9	2464.6
5°	3366.7	3228.1	2947.7	2665.4	2372.7	2109.1	1884.4	1653.9	1538.6	1488.1	1464.8
7.5°	3374.5	3163.4	2710.1	2236.0	1764.6	1407.2	1095.0	894.3	807.5	793.9	760.2
10°	3375.8	3085.0	2434.2	1762.0	1183.1	848.3	652.7	549.1	510.9	504.5	493.4
12.5°	3378.4	2992.4	2127.9	1304.8	788.7	567.3	472.1	437.8	427.4	426.7	426.7
15°	3386.1	2895.3	1809.9	940.3	566.6	449.4	414.4	400.8	397.0	398.9	398.3
17.5°	3386.1	2780.6	1497.8	700.7	457.8	404.1	384.7	375.6	374.3	376.2	376.9
20°	3361.5	2641.4	1211.6	545.3	406.0	374.9	357.5	349.0	345.8	347.1	347.7
22.5°	3302.6	2470.5	978.5	451.4	371.7	348.4	329.6	316.7	311.5	312.1	312.1
25°	3210.6	2267.8	765.4	390.5	343.9	319.9	297.9	283.0	279.7	279.1	280.4
27.5°	3092.8	2043.7	609.4	343.9	310.8	288.2	266.1	253.8	251.3	251.9	252.6
30°	2976.9	1811.2	480.5	304.4	273.9	252.6	235.7	229.9	229.9	231.8	232.5
32.5°	2870.7	1587.8	380.1	270.0	240.9	221.5	211.8	211.1	214.3	215.6	216.3
35°	2779.4	1381.3	314.7	243.5	215.0	198.2	194.9	197.5	201.4	204.0	204.6
37.5°	2714.6	1196.7	275.2	221.5	194.9	181.3	180.7	185.9	191.0	196.9	198.2
40°	2687.4	1040.6	248.0	202.0	178.7	168.4	166.4	173.5	183.3	191.7	193.0
42.5°	2664.7	913.1	224.7	183.3	165.8	150.9	150.2	159.3	171.0	179.4	181.3
45°	2645.3	810.8	203.3	163.2	148.9	129.5	131.5	143.1	152.2	161.2	163.2
47.5°	2605.2	726.6	180.0	141.8	123.0	110.7	114.6	125.0	132.1	145.7	147.6
50°	2533.3	657.9	156.1	115.9	100.4	95.8	101.7	108.8	117.9	129.5	130.8
52.5°	2484.7	606.1	135.3	97.1	82.9	84.2	90.0	92.6	97.8	102.3	101.0
55°	2456.9	577.6	118.5	84.2	70.6	74.5	75.8	72.5	69.9	65.4	63.5
57.5°	2453.6	551.7	105.6	73.2	62.2	64.1	59.6	48.6	39.5	34.3	33.0
60°	2448.4	520.0	95.2	61.5	55.0	52.5	42.7	26.6	18.8	17.5	17.5
62.5°	2392.1	470.8	87.4	51.8	46.6	39.5	24.6	12.3	10.4	11.0	11.0
65°	2212.7	402.1	79.7	42.1	36.9	28.5	12.3	7.1	3.9	4.5	4.5
67.5°	1881.2	320.5	71.2	32.4	27.8	18.1	7.1	3.2	0.0	0.0	0.0
70°	1259.5	198.8	60.2	22.7	18.1	11.0	5.2	0.6	0.0	0.0	0.0
72.5°	483.1	107.5	48.6	13.6	11.7	7.8	3.2	0.0	0.0	0.0	0.0
75°	108.8	70.6	33.7	9.7	8.4	5.2	1.3	0.0	0.0	0.0	0.0
77.5°	41.4	51.2	19.4	6.5	5.8	3.2	0.0	0.0	0.0	0.0	0.0
80°	20.1	30.4	9.1	3.9	3.2	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.4	11.7	3.9	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	5.8	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.9	0.6	0.6	0.0	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)