

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: P324778

Luminaire Tested: **GAN-SA4D-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324778
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-SA4D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 23334 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

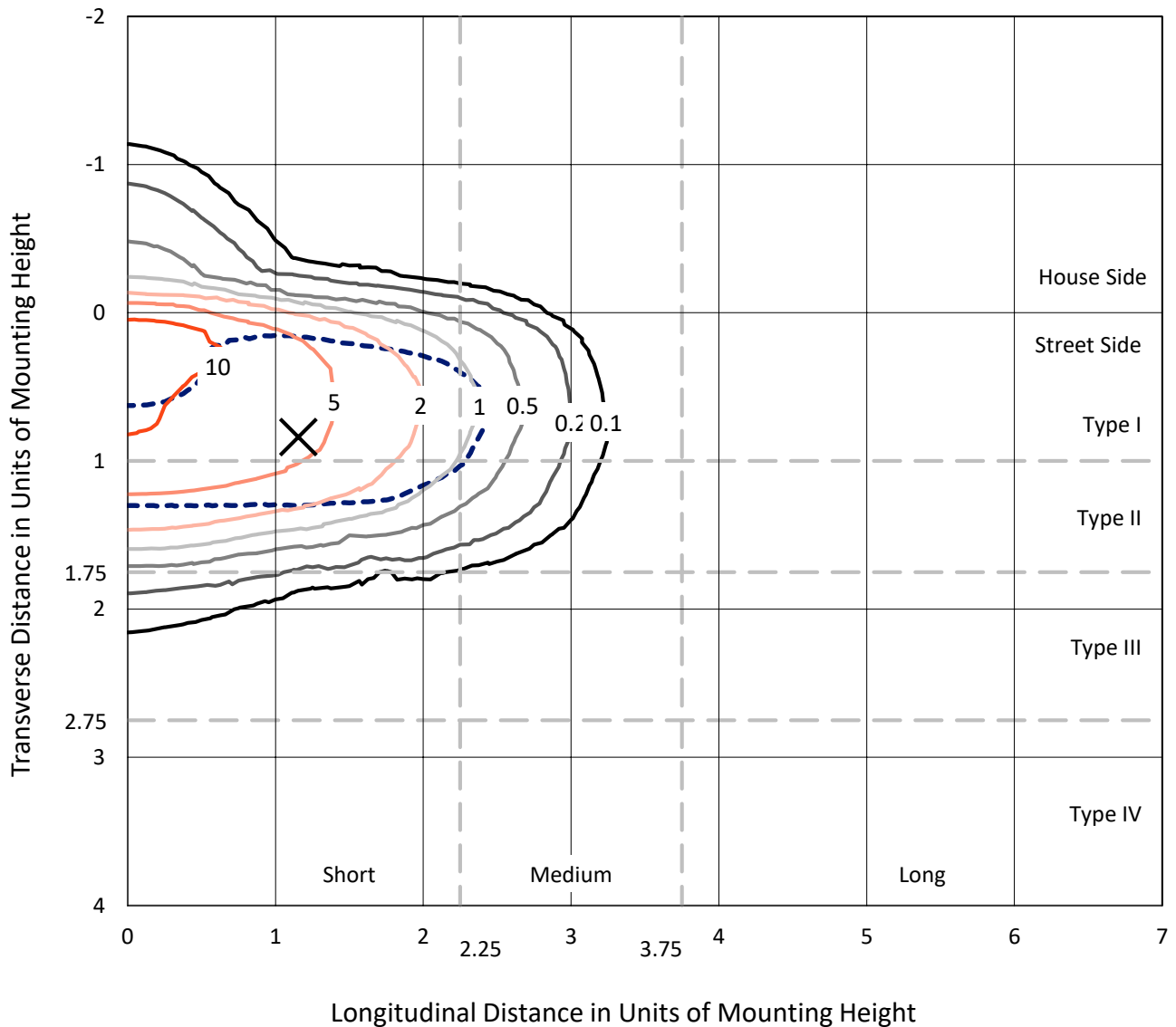
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

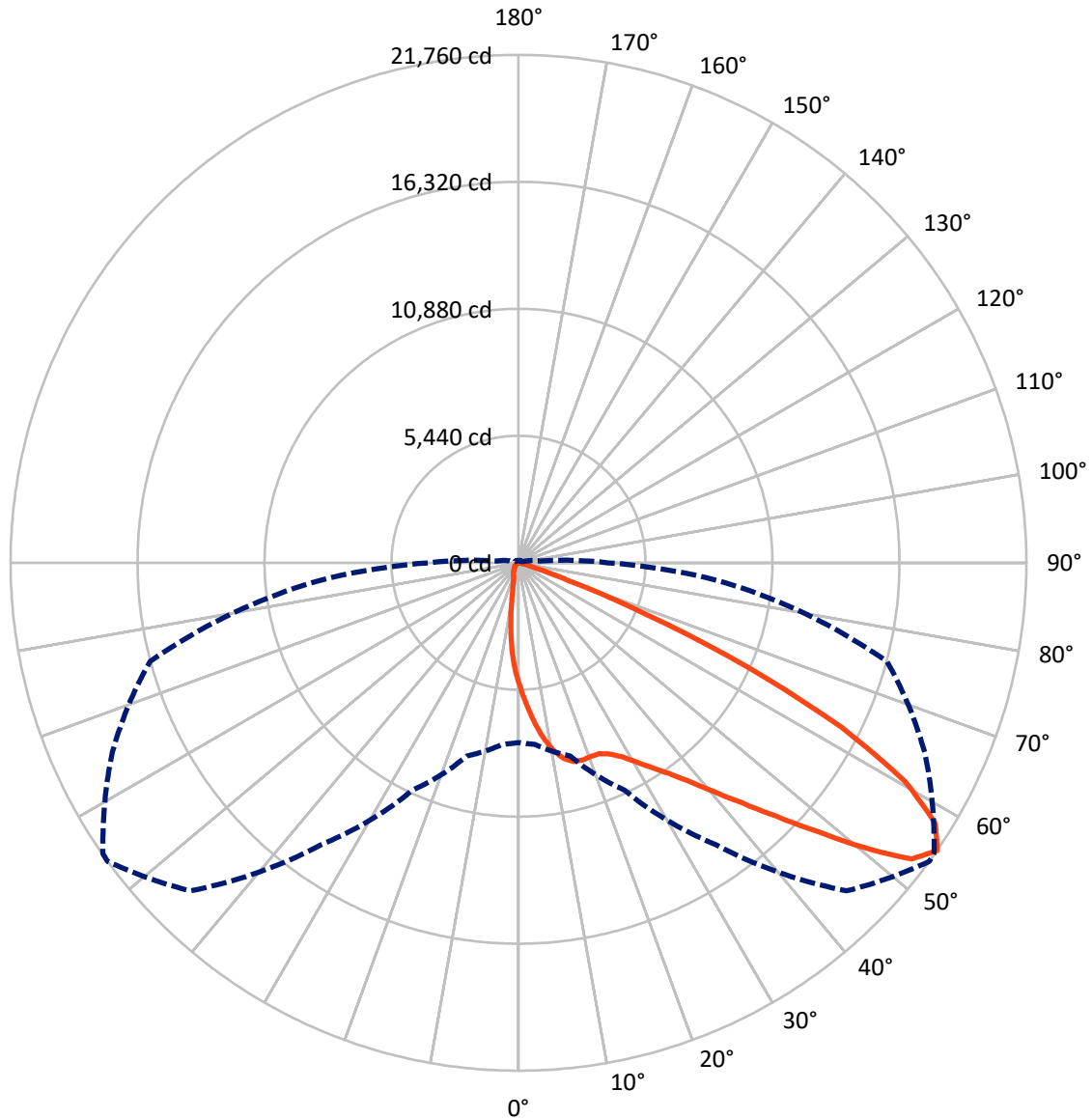
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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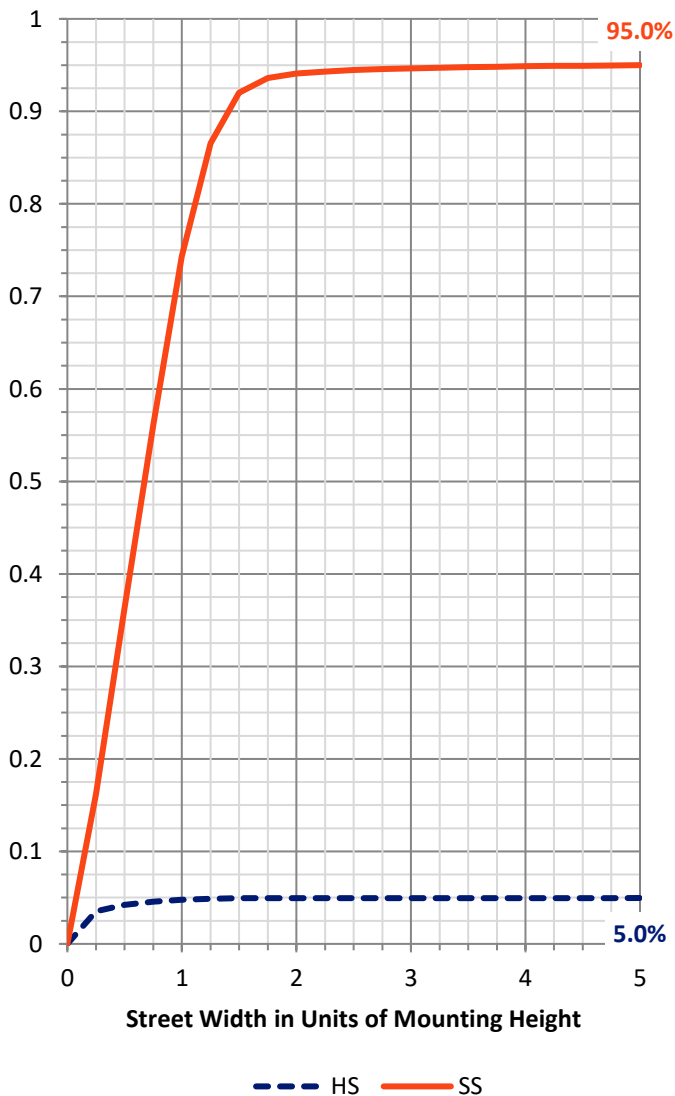
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1164.2	0.0	1164.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22169.8	0.0	22169.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	23334.0	0.0	23334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.2	2.1
10°-20°	1319.8	5.7
20°-30°	2253.4	9.7
30°-40°	3616.3	15.5
40°-50°	5778.9	24.8
50°-60°	6192.2	26.5
60°-70°	3179.3	13.6
70°-80°	481.6	2.1
80°-90°	31.4	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°	23334.0	100.0
0°-180°	23334.0	100.0

Coefficient of Utilization



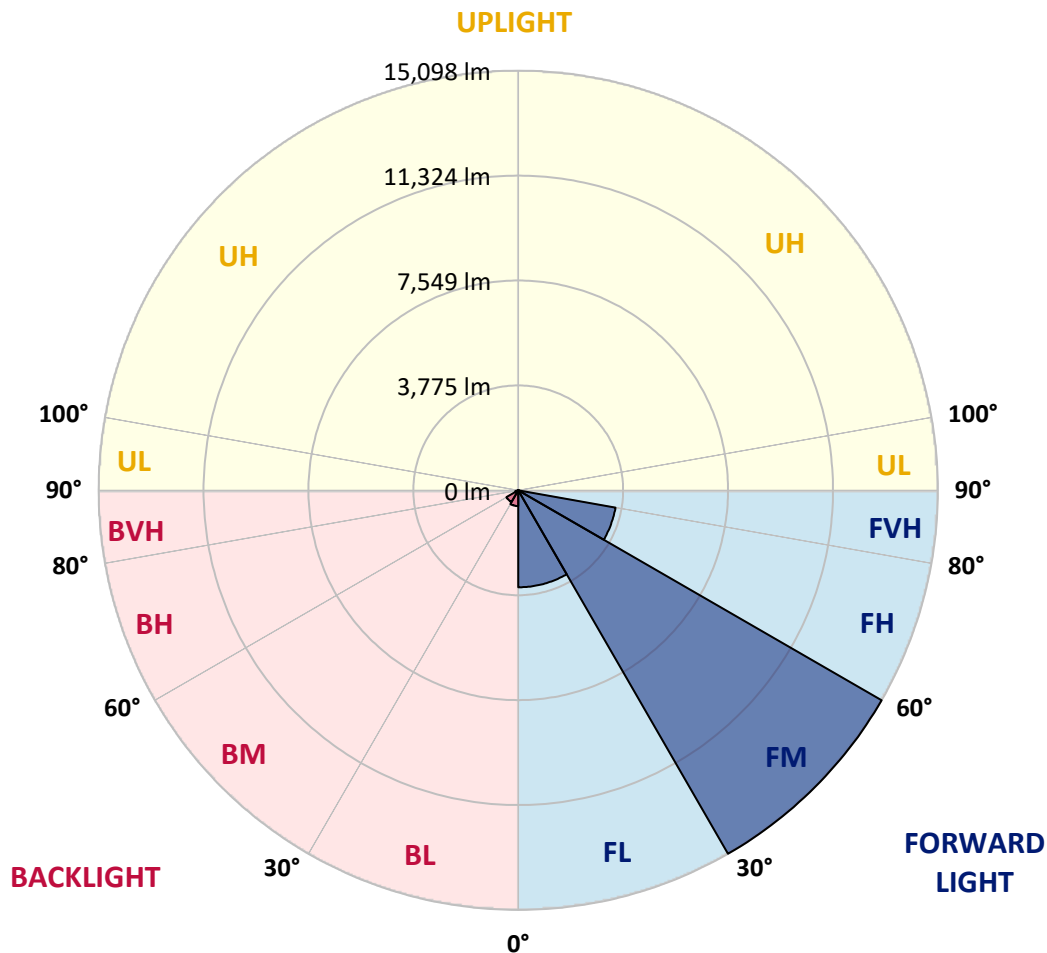
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.0	14.9			
FM (30°-60°)	15098.1	64.7			
FH (60°-80°)	3553.6	15.2			G2/5000
FVH (80°-90°)	30.1	0.1			G1/100
BL (0°-30°)	566.4	2.4	B2/1000		
BM (30°-60°)	489.2	2.1	B1/1000		
BH (60°-80°)	107.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9
2.5°	6558.0	6460.3	6463.3	6419.0	6256.7	6129.8	5997.8	5966.5	5761.0	5545.3	5337.7
5°	7691.7	7620.2	7603.0	7517.4	7291.6	7052.8	6796.9	6737.4	6335.3	5894.0	5459.7
7.5°	8274.1	8275.1	8261.0	8229.8	8088.7	7857.0	7544.6	7482.1	6934.9	6272.9	5586.6
10°	8104.8	8143.1	8221.7	8325.5	8433.4	8404.1	8169.3	8112.9	7518.4	6673.9	5727.7
12.5°	7709.8	7714.9	7802.5	7972.8	8283.2	8601.6	8605.7	8586.5	8075.6	7093.1	5882.9
15°	7513.3	7532.5	7564.7	7674.6	7968.8	8478.7	8843.5	8870.7	8586.5	7538.5	6048.2
17.5°	7642.3	7669.5	7642.3	7655.4	7825.7	8284.2	8884.8	8954.3	9032.9	7978.9	6204.3
20°	7992.0	8017.2	7968.8	7915.4	7948.7	8227.8	8855.6	8949.3	9382.6	8369.9	6335.3
22.5°	8463.6	8473.7	8400.1	8312.4	8288.2	8419.2	8879.8	8976.5	9662.7	8723.6	6418.0
25°	8982.5	8991.6	8899.9	8799.1	8741.7	8795.1	9078.3	9150.8	9909.6	9061.1	6465.3
27.5°	9547.9	9555.9	9441.0	9317.1	9250.6	9252.6	9405.8	9483.4	10172.6	9446.1	6503.6
30°	10145.4	10141.4	10035.6	9863.3	9778.6	9776.6	9877.4	9956.0	10553.5	9939.9	6556.0
32.5°	10816.5	10808.5	10658.3	10444.7	10349.0	10363.1	10452.8	10498.1	11026.1	10465.9	6649.7
35°	11700.3	11677.1	11450.4	11185.4	11009.0	11004.0	11079.5	11115.8	11628.7	11102.7	6805.9
37.5°	12847.0	12825.9	12518.5	12133.6	11885.7	11793.0	11882.7	11929.0	12488.3	11920.0	7056.9
40°	13977.7	13956.5	13774.1	13421.4	13039.5	12816.8	12887.3	12936.7	13561.5	12911.5	7373.3
42.5°	14757.6	14775.8	14839.2	14868.5	14510.7	14043.2	14075.4	14126.8	14689.1	13971.6	7735.0
45°	14963.2	15002.5	15361.2	16065.6	16199.6	15834.8	15497.3	15525.5	15834.8	15031.7	8096.8
47.5°	14345.5	14418.0	15110.3	16420.3	17555.0	17812.9	17174.1	17136.8	16934.2	15889.3	8353.7
50°	12941.8	13008.3	13905.1	15842.9	17966.1	19701.3	19183.4	19073.6	17898.6	16402.2	8444.4
52.5°	10910.3	10990.9	11719.4	14025.0	17191.2	20543.8	21085.9	20994.2	18606.0	16442.5	8459.6
55°	7704.8	7802.5	8573.4	10749.0	14735.4	19873.7	21760.1	21732.8	19193.5	16335.7	8491.8
57.5°	4330.0	4400.6	5231.9	6890.6	10792.4	17310.1	21055.7	21236.1	19548.2	16150.2	8540.2
60°	1922.7	1941.8	2372.1	3430.2	6318.2	13229.0	19039.3	19343.6	19243.9	15902.4	8621.8
62.5°	1066.1	1050.0	1050.0	1425.9	2746.0	8189.5	15525.5	16028.3	17944.9	15609.1	8625.8
65°	835.4	820.3	776.9	783.0	1046.0	3634.7	10751.0	11644.9	15478.1	14749.6	8335.6
67.5°	708.4	695.3	652.0	634.8	650.0	1199.2	5907.1	6835.2	11744.6	12515.5	7220.1
70°	598.6	589.5	567.3	546.2	507.9	592.5	2260.2	2891.1	7237.2	8325.5	4928.6
72.5°	481.7	477.6	485.7	467.6	421.2	395.0	772.9	936.1	3250.8	3715.4	2030.5
75°	415.2	413.2	417.2	399.0	346.6	275.1	393.0	429.3	917.0	908.9	411.1
77.5°	270.1	273.1	345.6	337.6	298.3	183.4	203.6	219.7	278.1	208.6	125.0
80°	172.3	170.3	175.3	280.1	268.0	140.1	101.8	106.8	134.0	102.8	60.5
82.5°	104.8	102.8	114.9	131.0	135.0	97.7	62.5	63.5	83.6	66.5	32.2
85°	9.1	12.1	69.5	64.5	46.4	30.2	30.2	32.2	44.3	39.3	18.1
87.5°	0.0	0.0	12.1	18.1	10.1	11.1	11.1	12.1	17.1	17.1	9.1
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°	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9	5225.9
2.5°	5229.9	5125.1	4913.5	4709.9	4537.6	4371.4	4181.9	3994.5	3906.8	3871.5	3835.3
5°	5239.0	5023.3	4587.0	4147.7	3692.2	3282.0	2932.4	2573.6	2394.3	2315.7	2279.4
7.5°	5251.1	4922.6	4217.2	3479.6	2746.0	2189.7	1704.0	1391.6	1256.6	1235.4	1183.0
10°	5253.1	4800.6	3787.9	2741.9	1841.0	1320.1	1015.8	854.5	795.1	785.0	767.9
12.5°	5257.1	4656.5	3311.3	2030.5	1227.4	882.7	734.6	681.2	665.1	664.1	664.1
15°	5269.2	4505.4	2816.5	1463.2	881.7	699.3	644.9	623.8	617.7	620.7	619.7
17.5°	5269.2	4327.0	2330.8	1090.3	712.4	628.8	598.6	584.5	582.4	585.5	586.5
20°	5230.9	4110.4	1885.4	848.5	631.8	583.5	556.2	543.1	538.1	540.1	541.1
22.5°	5139.2	3844.3	1522.6	702.4	578.4	542.1	512.9	492.8	484.7	485.7	485.7
25°	4996.1	3528.9	1191.1	607.6	535.1	497.8	463.5	440.4	435.3	434.3	436.3
27.5°	4812.7	3180.3	948.2	535.1	483.7	448.4	414.2	395.0	391.0	392.0	393.0
30°	4632.4	2818.5	747.7	473.6	426.3	393.0	366.8	357.7	357.7	360.8	361.8
32.5°	4467.1	2470.9	591.5	420.2	374.9	344.6	329.5	328.5	333.5	335.6	336.6
35°	4325.0	2149.4	489.7	378.9	334.6	308.4	303.3	307.3	313.4	317.4	318.4
37.5°	4224.2	1862.2	428.3	344.6	303.3	282.2	281.1	289.2	297.3	306.3	308.4
40°	4181.9	1619.4	385.9	314.4	278.1	262.0	259.0	270.1	285.2	298.3	300.3
42.5°	4146.6	1420.8	349.7	285.2	258.0	234.8	233.8	247.9	266.0	279.1	282.2
45°	4116.4	1261.6	316.4	253.9	231.8	201.5	204.6	222.7	236.8	250.9	253.9
47.5°	4053.9	1130.6	280.1	220.7	191.5	172.3	178.4	194.5	205.6	226.7	229.8
50°	3942.1	1023.8	242.9	180.4	156.2	149.1	158.2	169.3	183.4	201.5	203.6
52.5°	3866.5	943.2	210.6	151.2	129.0	131.0	140.1	144.1	152.2	159.2	157.2
55°	3823.2	898.9	184.4	131.0	109.8	115.9	117.9	112.9	108.8	101.8	98.8
57.5°	3818.1	858.6	164.3	113.9	96.7	99.8	92.7	75.6	61.5	53.4	51.4
60°	3810.1	809.2	148.1	95.7	85.7	81.6	66.5	41.3	29.2	27.2	27.2
62.5°	3722.4	732.6	136.0	80.6	72.6	61.5	38.3	19.1	16.1	17.1	17.1
65°	3443.3	625.8	123.9	65.5	57.4	44.3	19.1	11.1	6.0	7.1	7.1
67.5°	2927.3	498.8	110.8	50.4	43.3	28.2	11.1	5.0	0.0	0.0	0.0
70°	1960.0	309.4	93.7	35.3	28.2	17.1	8.1	1.0	0.0	0.0	0.0
72.5°	751.7	167.3	75.6	21.2	18.1	12.1	5.0	0.0	0.0	0.0	0.0
75°	169.3	109.8	52.4	15.1	13.1	8.1	2.0	0.0	0.0	0.0	0.0
77.5°	64.5	79.6	30.2	10.1	9.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	31.2	47.4	14.1	6.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	18.1	6.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	9.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.0	1.0	1.0	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)