

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: P300717

Luminaire Tested: **GAA-AF-10-LED-U-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-10-LED-U-AFL-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive
Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35398.1 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

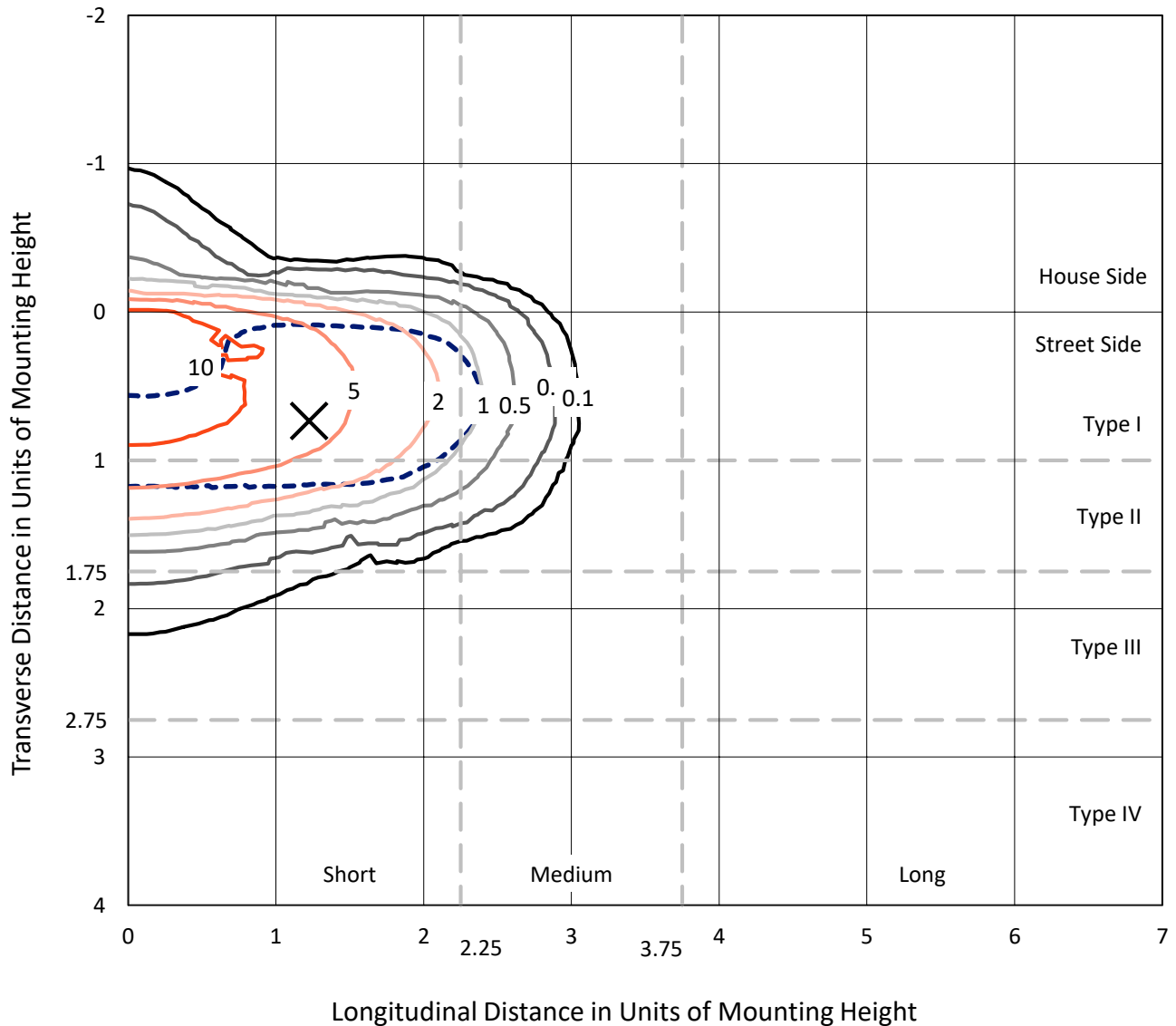
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

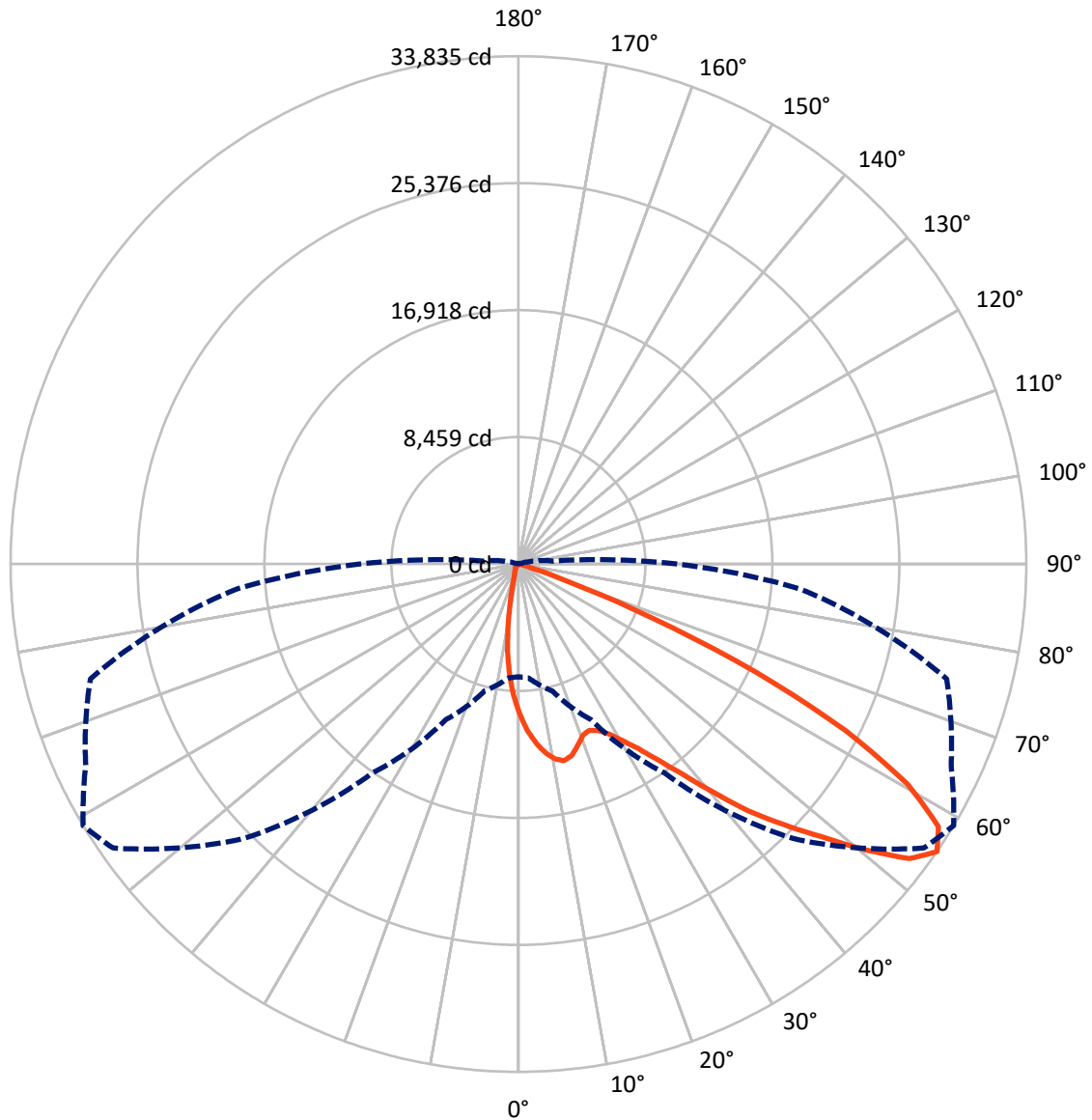
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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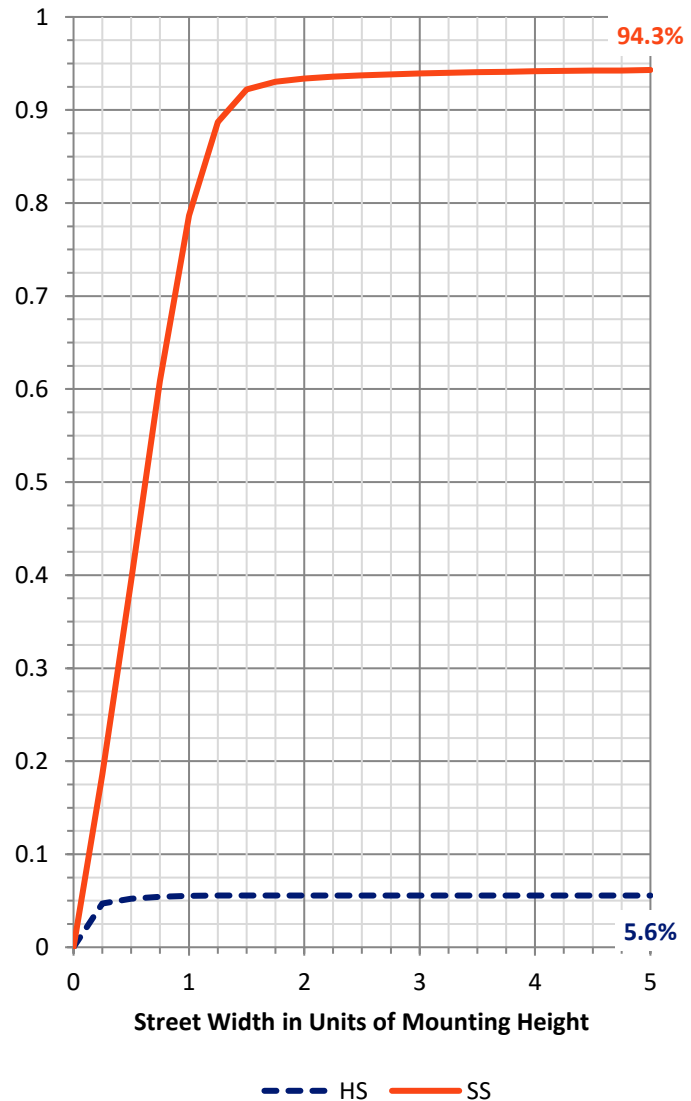
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1977.2	0.0	1977.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	33421.0	0.0	33421.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	35398.1	0.0	35398.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.6	2.4
10°-20°	1998.3	5.6
20°-30°	3400.4	9.6
30°-40°	5847.9	16.5
40°-50°	9028.6	25.5
50°-60°	9076.6	25.6
60°-70°	4654.5	13.1
70°-80°	504.4	1.4
80°-90°	52.7	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°	35398.1	100.0
0°-180°	35398.1	100.0

Coefficient of Utilization



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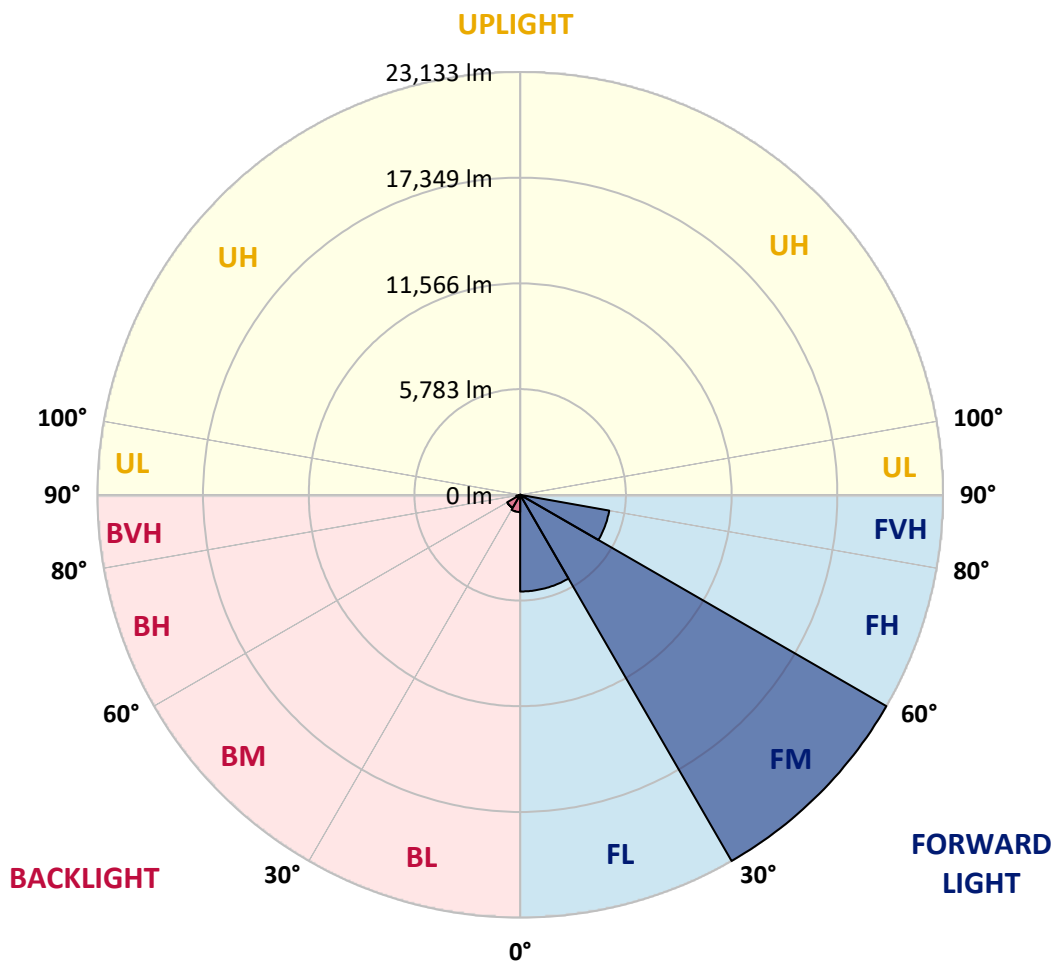
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5289.6	14.9			
FM	(30°-60°)	23132.5	65.3			
FH	(60°-80°)	4947.1	14.0			G2/5000
FVH	(80°-90°)	51.6	0.1			G1/100
BL	(0°-30°)	943.7	2.7	B2/1000		
BM	(30°-60°)	820.6	2.3	B1/1000		
BH	(60°-80°)	211.8	0.6	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	55°	59°	65°	75°	85°
0°	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5
2.5°	11790.2	11664.9	11627.3	11602.2	11487.3	11343.2	11146.8	11054.9	10866.9	10564.0	10192.2
5°	12870.2	12847.2	12763.7	12717.7	12594.5	12389.8	12076.4	11926.0	11627.3	11117.6	10451.2
7.5°	12398.1	12542.3	12657.2	12849.3	13091.7	13083.3	12820.1	12663.4	12329.2	11656.5	10739.5
10°	10574.4	10691.4	10879.4	11316.0	12205.9	12991.4	13300.6	13187.8	12920.4	12151.6	11017.3
12.5°	10217.2	10204.7	10238.1	10365.5	10831.4	11951.1	13219.1	13446.8	13392.5	12604.9	11280.5
15°	10407.3	10392.7	10388.5	10432.4	10545.2	11017.3	12607.0	13260.9	13680.8	13024.8	11504.0
17.5°	10940.0	10877.3	10843.9	10808.4	10775.0	10892.0	11871.7	12740.7	13724.6	13392.5	11690.0
20°	11852.9	11748.4	11625.2	11424.7	11236.6	11178.2	11562.5	12205.9	13567.9	13672.4	11811.1
22.5°	12999.7	12866.0	12653.0	12287.4	11905.1	11683.7	11715.0	12036.7	13334.0	13977.4	11867.5
25°	14288.6	14117.4	13833.2	13325.6	12763.7	12371.0	12166.2	12279.0	13227.4	14334.6	11932.3
27.5°	15669.5	15479.4	15107.5	14416.1	13778.9	13248.3	12830.5	12815.9	13409.2	14802.5	12036.7
30°	17037.7	17008.5	16523.9	15792.7	14948.8	14303.3	13701.6	13624.4	13916.8	15450.1	12243.5
32.5°	18863.5	18644.2	18050.9	17298.9	16325.4	15550.4	14838.0	14658.4	14696.0	16204.2	12563.1
35°	21165.6	20925.3	20089.8	19051.5	17963.2	17048.2	16260.6	16016.2	15924.3	17438.8	13102.1
37.5°	22652.9	22648.8	22124.4	21067.4	19899.7	18890.7	18034.2	17748.0	17562.1	18930.4	13937.7
40°	22692.6	22790.8	22859.7	22849.3	22017.9	21088.3	20327.9	19974.9	19542.4	20923.3	15017.7
42.5°	21474.8	21727.5	22335.4	23367.4	23860.4	23490.6	22849.3	22502.5	21859.1	23056.1	16333.8
45°	19828.6	20004.1	21067.4	22968.4	24858.9	25872.1	25383.2	24762.8	23914.7	25280.9	17514.0
47.5°	19091.2	19122.6	19809.8	21896.7	24934.1	27823.2	28119.8	27110.8	25782.2	27073.2	18437.4
50°	16887.3	16943.7	17892.1	20039.6	24052.6	28744.4	30868.9	29912.2	27819.0	28454.0	18773.7
52.5°	12728.2	12807.6	14010.8	16987.6	21629.3	28351.7	32836.7	32604.9	30050.0	29128.8	18792.5
55°	7509.9	7614.3	8763.3	11435.1	17012.7	25853.3	32983.0	33835.3	31811.0	29527.8	18763.2
57.5°	3507.4	3580.5	4238.5	5890.9	10580.7	20432.3	30781.2	32991.3	32782.4	29738.8	18970.1
60°	1863.4	1884.3	2043.0	2550.6	4781.7	12955.9	26484.1	29791.0	31896.7	30031.2	19222.8
62.5°	1424.7	1431.0	1422.6	1483.2	2009.6	5751.0	20018.7	24491.2	28330.8	29811.9	18942.9
65°	1234.6	1245.0	1186.5	1171.9	1288.9	2051.4	11892.6	17457.6	22262.3	26851.8	17035.7
67.5°	1107.2	1111.3	1040.3	979.7	1000.6	1109.3	4691.9	9557.1	14735.7	19682.4	12348.0
70°	1019.4	1015.2	938.0	841.9	814.7	758.3	1491.5	3503.2	7042.0	9981.2	5742.6
72.5°	902.4	904.5	866.9	741.6	676.8	530.6	691.5	1021.5	2101.5	2719.9	1345.3
75°	800.1	789.6	743.7	664.3	557.8	348.9	342.6	455.4	647.6	643.4	290.4
77.5°	578.6	568.2	582.8	545.2	428.2	225.6	171.3	219.3	263.2	254.9	81.5
80°	424.1	417.8	376.0	453.3	378.1	154.6	106.5	117.0	135.8	114.9	25.1
82.5°	290.4	288.3	265.3	250.7	215.2	94.0	66.8	73.1	87.7	64.8	12.5
85°	46.0	52.2	192.2	152.5	127.4	41.8	46.0	50.1	58.5	35.5	4.2
87.5°	0.0	0.0	89.8	79.4	25.1	16.7	27.2	29.2	29.2	18.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5	9964.5
2.5°	10002.1	9793.2	9406.7	9007.7	8637.9	8197.2	7894.3	7666.6	7403.4	7332.3	7486.9
5°	10071.0	9676.2	8844.8	7940.2	7090.0	6147.9	5427.2	4856.9	4340.9	4165.4	4324.2
7.5°	10179.6	9592.6	8236.9	6747.4	5268.4	3797.8	2790.9	2128.7	1706.7	1581.4	1648.2
10°	10288.2	9471.5	7532.9	5335.3	3313.1	1848.8	1203.3	960.9	871.1	852.3	862.8
12.5°	10378.1	9308.5	6674.3	3793.6	1771.5	990.2	787.5	747.9	735.3	735.3	739.5
15°	10432.4	9062.0	5657.0	2412.8	1019.4	747.9	687.3	674.7	674.7	676.8	681.0
17.5°	10426.1	8748.7	4543.5	1460.2	762.5	662.2	626.7	616.3	614.2	618.3	620.4
20°	10348.8	8339.2	3425.9	963.0	664.3	603.7	568.2	549.4	547.3	551.5	555.7
22.5°	10202.6	7833.7	2450.4	741.6	599.5	547.3	503.4	486.7	486.7	490.9	495.1
25°	10025.0	7215.3	1675.4	628.8	541.0	486.7	445.0	430.3	434.5	445.0	447.0
27.5°	9803.6	6519.7	1138.5	539.0	470.0	426.2	394.8	384.4	394.8	409.4	413.6
30°	9613.5	5794.8	812.6	465.8	399.0	367.7	348.9	348.9	363.5	390.6	396.9
32.5°	9467.3	5092.9	626.7	411.5	346.8	319.6	309.2	319.6	342.6	369.8	376.0
35°	9448.5	4514.3	530.6	367.7	309.2	282.0	277.8	296.6	319.6	340.5	344.7
37.5°	9592.6	3979.5	478.4	332.1	275.7	250.7	246.5	269.5	292.5	317.5	323.8
40°	9866.3	3559.6	440.8	298.7	248.6	221.4	213.1	229.8	261.1	294.5	302.9
42.5°	10221.4	3212.9	399.0	265.3	221.4	183.8	173.4	192.2	225.6	261.1	271.6
45°	10559.8	2914.1	353.0	227.7	185.9	142.1	137.9	162.9	179.7	215.2	223.5
47.5°	10745.7	2650.9	313.3	185.9	144.1	114.9	114.9	121.2	137.9	179.7	188.0
50°	10683.1	2439.9	271.6	137.9	100.3	87.7	87.7	85.6	110.7	144.1	150.4
52.5°	10557.7	2318.8	234.0	106.5	68.9	62.7	56.4	62.7	77.3	91.9	94.0
55°	10538.9	2297.9	196.4	85.6	48.0	41.8	31.3	31.3	31.3	29.2	25.1
57.5°	10685.2	2331.3	165.0	68.9	35.5	27.2	16.7	0.0	0.0	0.0	0.0
60°	10835.6	2366.8	142.1	48.0	25.1	14.6	2.1	0.0	0.0	0.0	0.0
62.5°	10584.9	2287.4	119.1	29.2	18.8	6.3	0.0	0.0	0.0	0.0	0.0
65°	9298.1	1946.9	94.0	20.9	12.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6613.7	1303.5	62.7	12.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	3018.6	545.2	39.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	645.5	169.2	27.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	131.6	123.3	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	41.8	194.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.1	140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)