

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: P324783

Luminaire Tested: **GAN-SA9D-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324783
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-SA9D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 51714 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

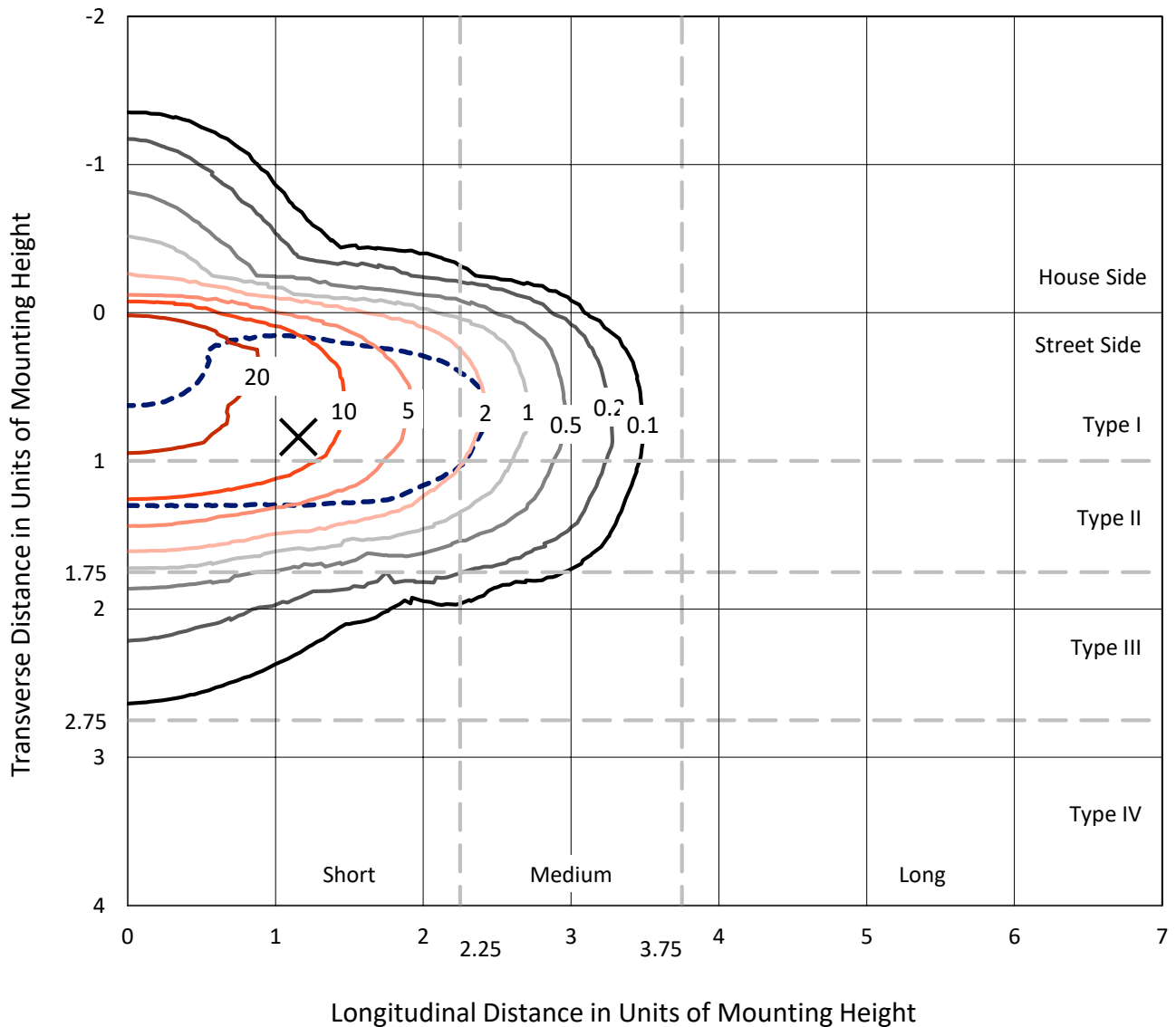
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

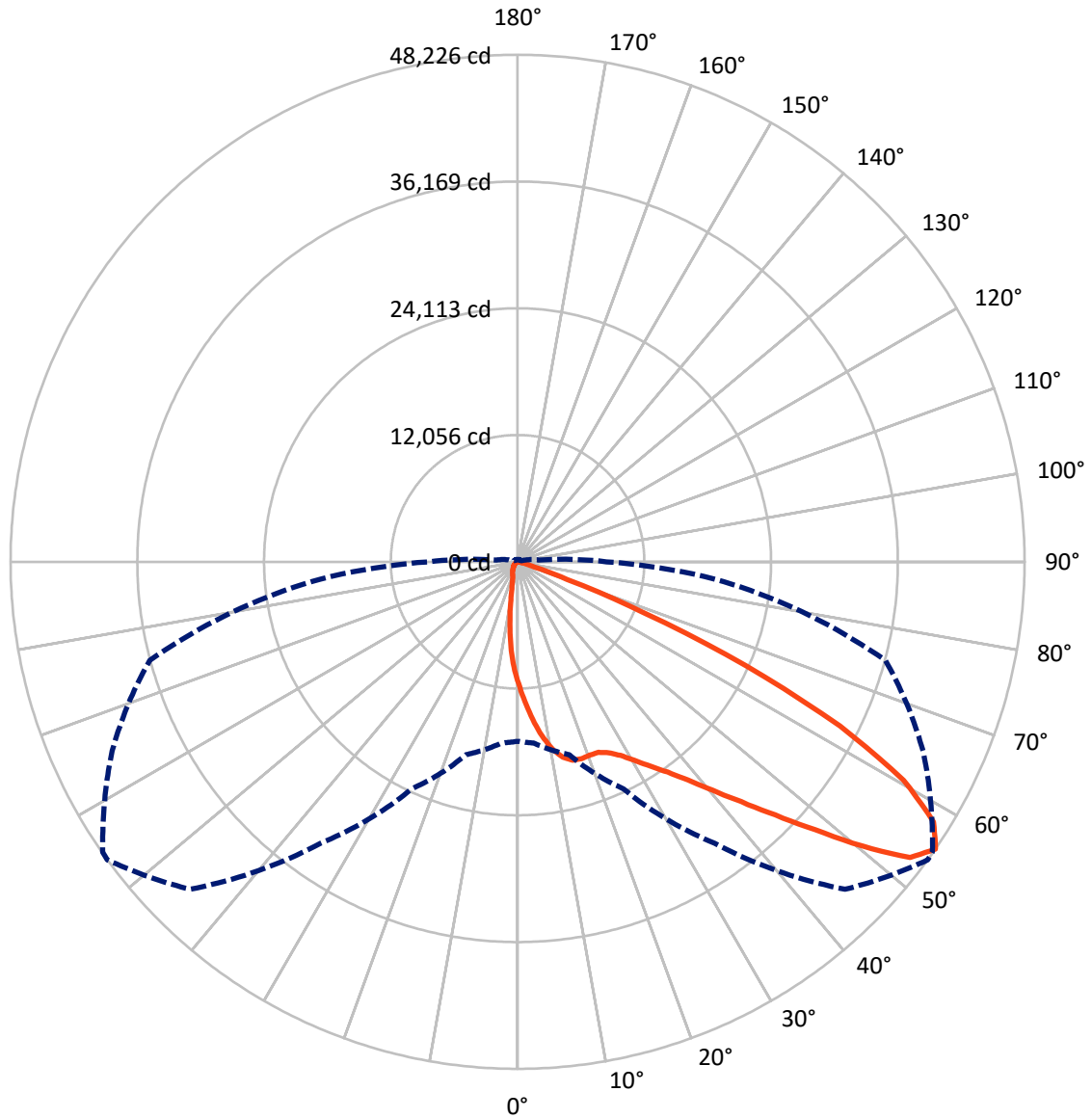
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 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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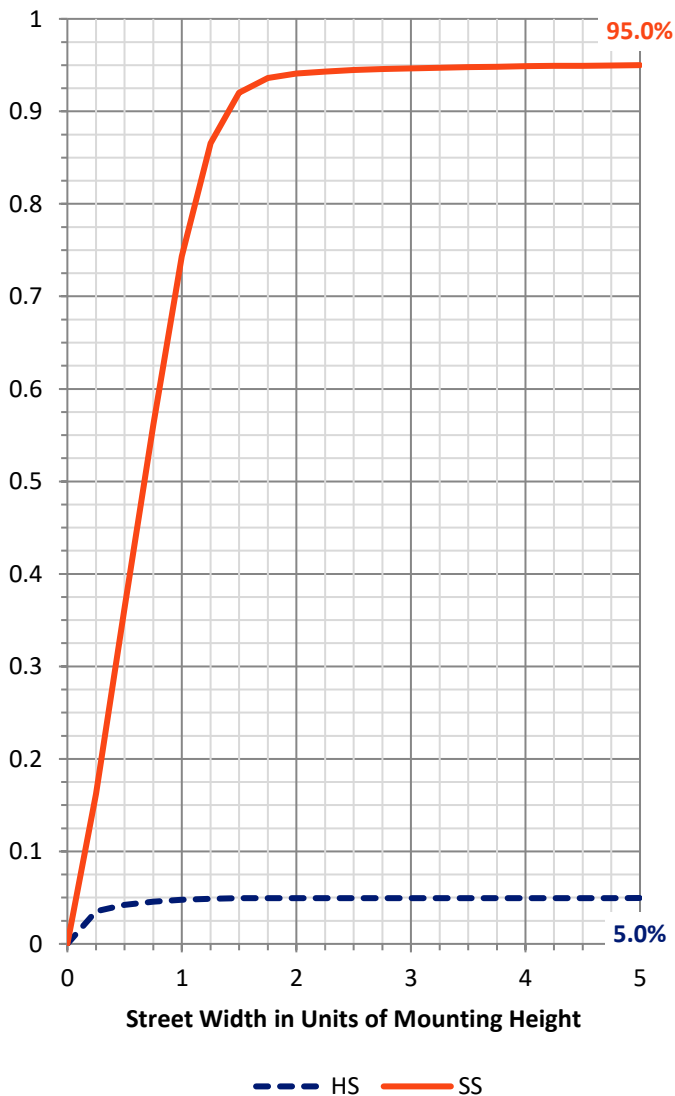
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2580.2	0.0	2580.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	49133.9	0.0	49133.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	51714.0	0.0	51714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.6	2.1
10°-20°	2925.1	5.7
20°-30°	4994.1	9.7
30°-40°	8014.6	15.5
40°-50°	12807.4	24.8
50°-60°	13723.5	26.5
60°-70°	7046.0	13.6
70°-80°	1067.3	2.1
80°-90°	69.5	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°	51714.0	100.0
0°-180°	51714.0	100.0

Coefficient of Utilization



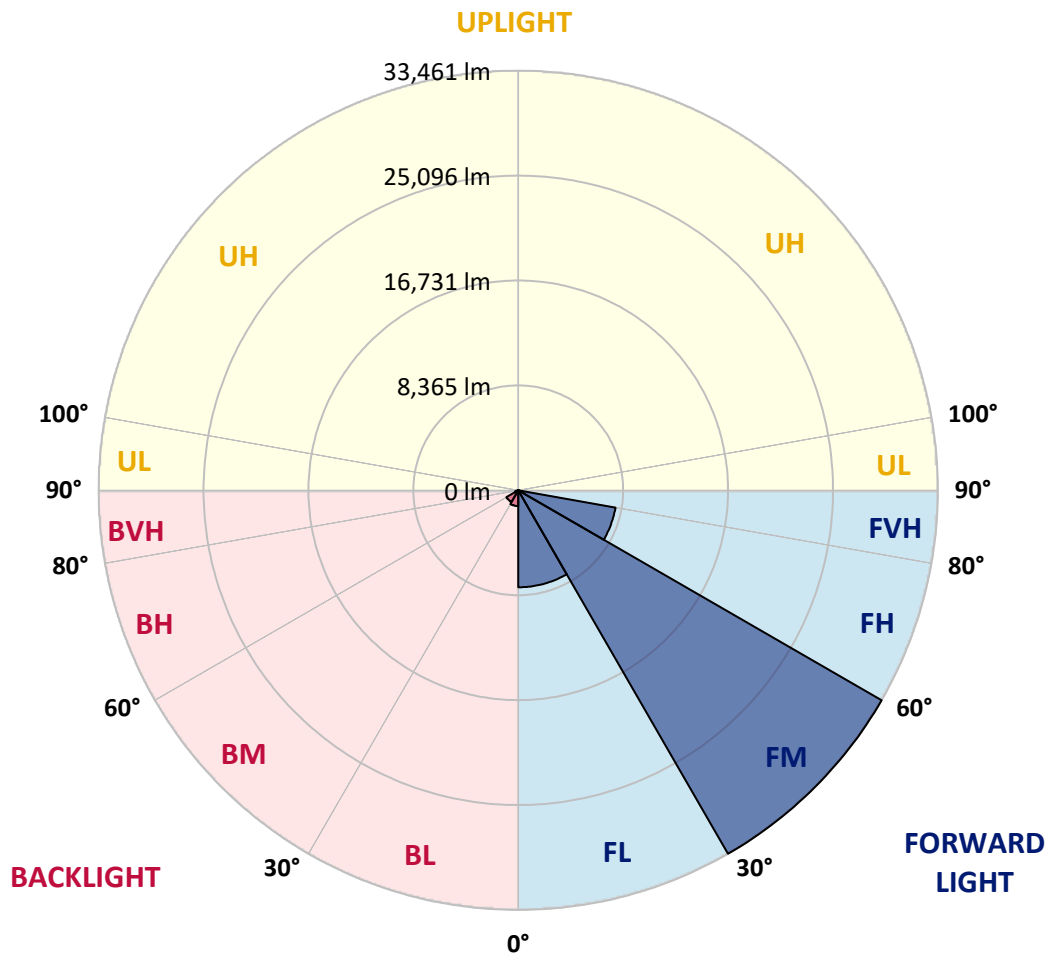
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7730.3	14.9			
FM (30°-60°)	33461.2	64.7			
FH (60°-80°)	7875.6	15.2			G4/12000
FVH (80°-90°)	66.7	0.1			G1/100
BL (0°-30°)	1255.3	2.4	B3/2500		
BM (30°-60°)	1084.2	2.1	B2/2500		
BH (60°-80°)	237.8	0.5	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9
2.5°	14534.3	14317.6	14324.3	14226.1	13866.5	13585.1	13292.6	13223.3	12767.7	12289.8	11829.8
5°	17046.7	16888.2	16850.2	16660.4	16160.1	15630.8	15063.6	14931.8	14040.7	13062.5	12100.0
7.5°	18337.6	18339.8	18308.5	18239.3	17926.6	17413.0	16720.7	16582.2	15369.5	13902.3	12381.4
10°	17962.4	18047.2	18221.4	18451.5	18690.4	18625.7	18105.3	17980.2	16662.6	14791.1	12694.0
12.5°	17086.9	17098.1	17292.4	17669.8	18357.7	19063.4	19072.3	19029.9	17897.6	15720.2	13038.0
15°	16651.4	16693.9	16765.3	17008.8	17660.9	18790.9	19599.4	19659.7	19029.9	16707.3	13404.2
17.5°	16937.3	16997.6	16937.3	16966.3	17343.8	18359.9	19690.9	19845.0	20019.2	17683.2	13750.4
20°	17712.3	17768.1	17660.9	17542.5	17616.2	18234.8	19626.2	19833.9	20794.2	18549.7	14040.7
22.5°	18757.4	18779.8	18616.7	18422.4	18368.8	18659.2	19679.8	19894.2	21415.1	19333.6	14223.8
25°	19907.6	19927.7	19724.4	19501.1	19373.8	19492.2	20119.7	20280.5	21962.2	20081.8	14328.8
27.5°	21160.5	21178.3	20923.7	20649.0	20501.6	20506.1	20845.6	21017.5	22545.1	20934.9	14413.7
30°	22484.8	22475.9	22241.4	21859.5	21671.9	21667.4	21890.7	22064.9	23389.3	22029.2	14529.8
32.5°	23972.2	23954.3	23621.5	23148.1	22935.9	22967.2	23166.0	23266.5	24436.7	23195.0	14737.5
35°	25930.8	25879.4	25376.9	24789.6	24398.7	24387.6	24555.1	24635.5	25772.2	24606.4	15083.7
37.5°	28472.3	28425.4	27744.2	26891.1	26341.7	26136.2	26335.0	26437.7	27677.2	26417.6	15639.8
40°	30978.0	30931.1	30526.9	29745.2	28898.8	28405.3	28561.6	28671.0	30055.7	28615.2	16341.0
42.5°	32706.6	32746.8	32887.5	32952.2	32159.4	31123.2	31194.6	31308.5	32554.7	30964.6	17142.8
45°	33162.2	33249.3	34044.3	35605.4	35902.4	35094.0	34345.8	34408.4	35094.0	33314.0	17944.5
47.5°	31793.2	31954.0	33488.2	36391.5	38906.2	39477.9	38062.0	37979.4	37530.5	35214.6	18514.0
50°	28682.2	28829.6	30817.2	35111.8	39817.4	43663.1	42515.2	42271.8	39667.8	36351.3	18715.0
52.5°	24179.9	24358.5	25973.2	31083.0	38100.0	45530.2	46731.7	46528.4	41235.5	36440.7	18748.5
55°	17075.8	17292.4	19000.9	23822.5	32657.5	44045.0	48225.7	48165.4	42537.5	36203.9	18820.0
57.5°	9596.5	9752.8	11595.3	15271.3	23918.6	38363.5	46664.7	47064.4	43323.7	35793.0	18927.2
60°	4261.1	4303.6	5257.2	7602.1	14002.8	29318.7	42195.8	42870.3	42649.2	35243.6	19108.1
62.5°	2362.8	2327.1	2327.1	3160.1	6085.7	18150.0	34408.4	35522.8	39770.5	34593.7	19117.0
65°	1851.4	1817.9	1721.9	1735.3	2318.2	8055.5	23827.0	25807.9	34303.4	32688.7	18473.8
67.5°	1570.0	1541.0	1444.9	1407.0	1440.5	2657.6	13091.6	15148.4	26029.0	27737.5	16001.5
70°	1326.6	1306.5	1257.3	1210.4	1125.6	1313.2	5009.3	6407.3	16039.5	18451.5	10923.0
72.5°	1067.5	1058.6	1076.4	1036.2	933.5	875.5	1712.9	2074.7	7204.6	8234.2	4500.1
75°	920.1	915.7	924.6	884.4	768.3	609.7	871.0	951.4	2032.3	2014.4	911.2
77.5°	598.5	605.2	766.0	748.2	661.1	406.5	451.1	486.9	616.4	462.3	276.9
80°	381.9	377.4	388.6	620.9	594.1	310.4	225.6	236.7	297.0	227.8	134.0
82.5°	232.3	227.8	254.6	290.3	299.3	216.6	138.5	140.7	185.4	147.4	71.5
85°	20.1	26.8	154.1	142.9	102.7	67.0	67.0	71.5	98.3	87.1	40.2
87.5°	0.0	0.0	26.8	40.2	22.3	24.6	24.6	26.8	38.0	38.0	20.1
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°	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9	11581.9
2.5°	11590.8	11358.5	10889.5	10438.4	10056.5	9688.0	9268.2	8852.8	8658.5	8580.3	8499.9
5°	11610.9	11133.0	10166.0	9192.2	8182.8	7273.8	6498.9	5703.8	5306.3	5132.1	5051.7
7.5°	11637.7	10909.6	9346.3	7711.6	6085.7	4852.9	3776.5	3084.2	2784.9	2738.0	2621.9
10°	11642.2	10639.4	8395.0	6076.8	4080.2	2925.6	2251.2	1893.8	1762.1	1739.7	1701.8
12.5°	11651.1	10320.0	7338.6	4500.1	2720.2	1956.4	1628.1	1509.7	1474.0	1471.7	1471.7
15°	11677.9	9985.1	6242.1	3242.7	1954.1	1549.9	1429.3	1382.4	1369.0	1375.7	1373.5
17.5°	11677.9	9589.8	5165.6	2416.4	1578.9	1393.6	1326.6	1295.3	1290.8	1297.5	1299.8
20°	11593.0	9109.6	4178.5	1880.4	1400.3	1293.1	1232.8	1203.7	1192.6	1197.0	1199.3
22.5°	11389.8	8520.0	3374.5	1556.6	1281.9	1201.5	1136.7	1092.1	1074.2	1076.4	1076.4
25°	11072.7	7821.0	2639.8	1346.7	1185.9	1103.2	1027.3	975.9	964.8	962.5	967.0
27.5°	10666.2	7048.3	2101.5	1185.9	1072.0	993.8	917.9	875.5	866.5	868.8	871.0
30°	10266.5	6246.5	1657.1	1049.6	944.7	871.0	812.9	792.8	792.8	799.5	801.8
32.5°	9900.2	5476.0	1310.9	931.3	830.8	763.8	730.3	728.1	739.2	743.7	745.9
35°	9585.3	4763.6	1085.4	839.7	741.5	683.4	672.2	681.2	694.6	703.5	705.7
37.5°	9362.0	4127.1	949.1	763.8	672.2	625.3	623.1	641.0	658.8	678.9	683.4
40°	9268.2	3588.9	855.4	696.8	616.4	580.7	574.0	598.5	632.0	661.1	665.5
42.5°	9190.0	3148.9	775.0	632.0	571.7	520.4	518.1	549.4	589.6	618.6	625.3
45°	9123.0	2796.1	701.3	562.8	513.7	446.7	453.4	493.6	524.8	556.1	562.8
47.5°	8984.5	2505.8	620.9	489.1	424.3	381.9	395.3	431.0	455.6	502.5	509.2
50°	8736.6	2269.0	538.2	399.8	346.2	330.5	350.6	375.2	406.5	446.7	451.1
52.5°	8569.1	2090.4	466.8	335.0	285.9	290.3	310.4	319.4	337.2	352.9	348.4
55°	8473.1	1992.1	408.7	290.3	243.4	256.8	261.3	250.1	241.2	225.6	218.9
57.5°	8461.9	1902.8	364.0	252.4	214.4	221.1	205.5	167.5	136.2	118.4	113.9
60°	8444.1	1793.3	328.3	212.2	189.8	180.9	147.4	91.6	64.8	60.3	60.3
62.5°	8249.8	1623.6	301.5	178.7	160.8	136.2	84.9	42.4	35.7	38.0	38.0
65°	7631.2	1386.9	274.7	145.2	127.3	98.3	42.4	24.6	13.4	15.6	15.6
67.5°	6487.7	1105.5	245.7	111.7	96.0	62.5	24.6	11.2	0.0	0.0	0.0
70°	4343.8	685.6	207.7	78.2	62.5	38.0	17.9	2.2	0.0	0.0	0.0
72.5°	1666.0	370.7	167.5	46.9	40.2	26.8	11.2	0.0	0.0	0.0	0.0
75°	375.2	243.4	116.1	33.5	29.0	17.9	4.5	0.0	0.0	0.0	0.0
77.5°	142.9	176.4	67.0	22.3	20.1	11.2	0.0	0.0	0.0	0.0	0.0
80°	69.2	105.0	31.3	13.4	11.2	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	35.7	40.2	13.4	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	20.1	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	6.7	2.2	2.2	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)