

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: P192608

Luminaire Tested: **GAN-AF-10-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64479.4 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 640
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

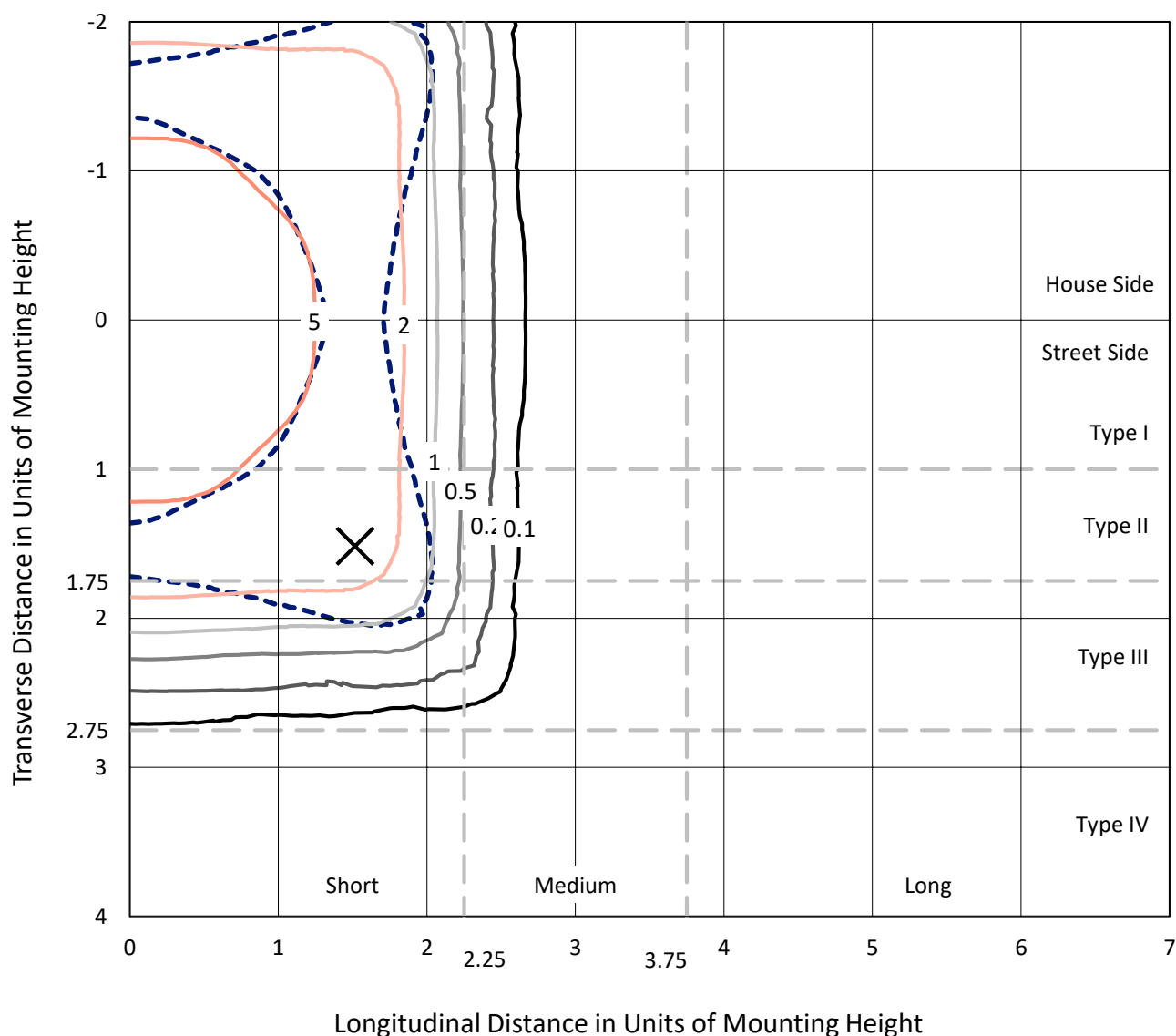


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

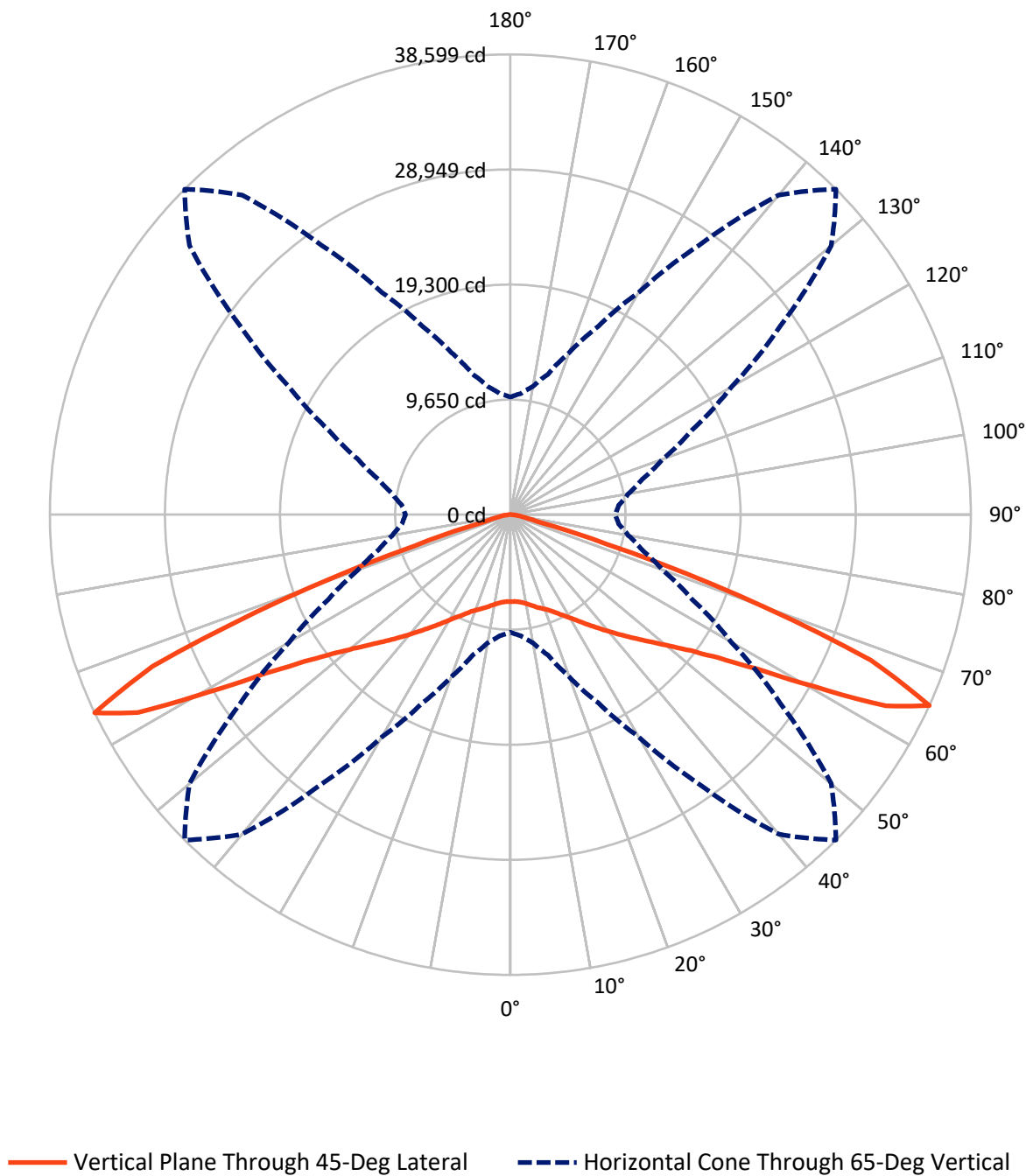


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32239.7	0.0	32239.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32239.7	0.0	32239.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	64479.4	0.0	64479.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.1	1.1
10°-20°	2280.7	3.5
20°-30°	4264.4	6.6
30°-40°	7212.3	11.2
40°-50°	11792.9	18.3
50°-60°	18752.6	29.1
60°-70°	16951.1	26.3
70°-80°	2145.2	3.3
80°-90°	369.0	0.6
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°	64479.4	100.0
0°-180°	64479.4	100.0

Coefficient of Utilization



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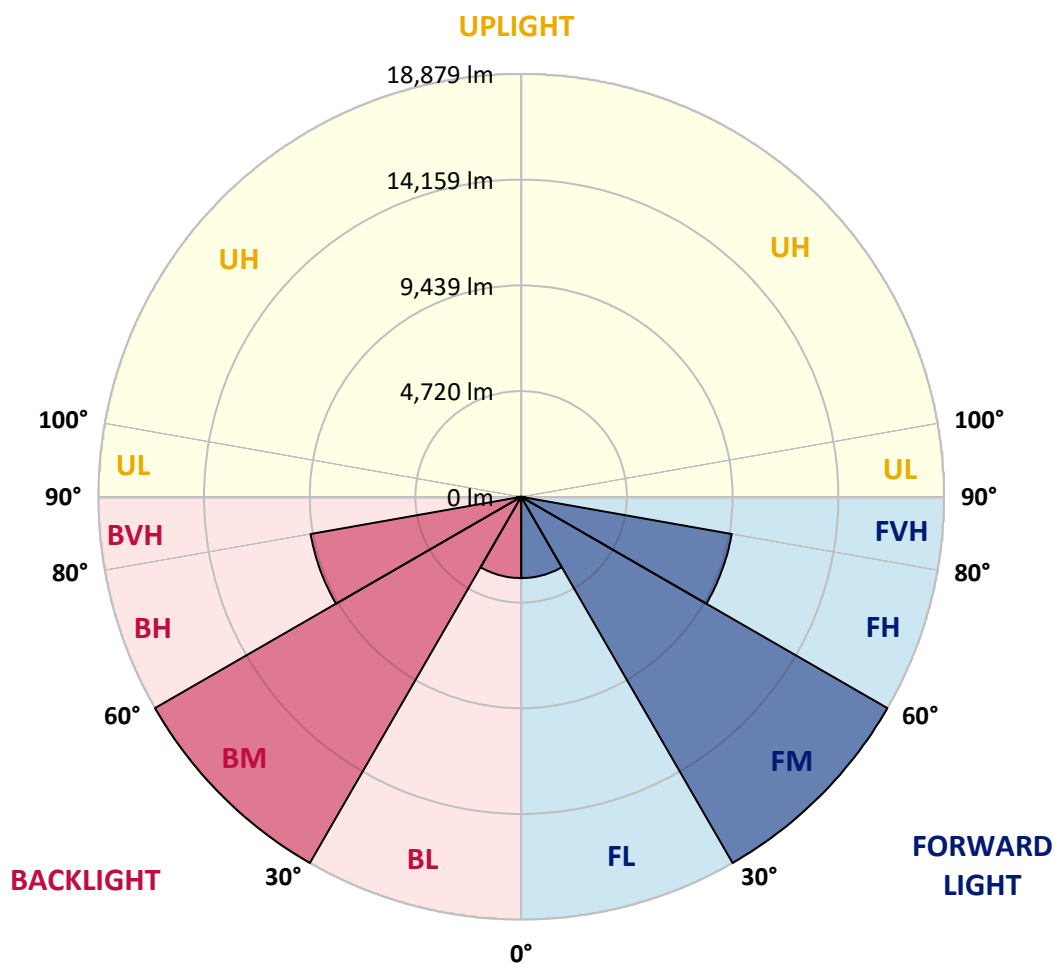
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3628.1	5.6			
FM	(30°-60°)	18878.9	29.3			
FH	(60°-80°)	9548.2	14.8			G4/12000
FVH	(80°-90°)	184.5	0.3			G2/225
BL	(0°-30°)	3628.1	5.6	B4/5000		
BM	(30°-60°)	18878.9	29.3	B5		
BH	(60°-80°)	9548.2	14.8	B5		G4/12000
BVH	(80°-90°)	184.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9
2.5°	7301.9	7308.0	7314.1	7308.0	7314.1	7305.0	7298.8	7308.0	7298.8	7289.9	7295.9
5°	7365.2	7368.3	7368.3	7359.2	7368.3	7362.3	7353.2	7365.2	7356.3	7347.2	7353.2
7.5°	7471.0	7483.0	7474.0	7465.0	7471.0	7465.0	7458.9	7462.0	7458.9	7449.9	7452.9
10°	7612.9	7622.0	7616.0	7612.9	7618.9	7616.0	7609.9	7606.9	7609.9	7600.8	7600.8
12.5°	7785.0	7782.1	7779.0	7782.1	7791.2	7791.2	7788.1	7791.2	7797.2	7800.1	7794.1
15°	7954.2	7960.2	7960.2	7960.2	7978.3	7993.4	8002.4	8008.6	8020.6	8023.7	8011.6
17.5°	8165.6	8165.6	8162.5	8165.6	8183.7	8207.9	8217.0	8229.0	8241.1	8250.1	8235.1
20°	8401.2	8407.2	8407.2	8413.2	8437.3	8464.6	8464.6	8470.6	8464.6	8470.6	8461.5
22.5°	8688.0	8706.1	8706.1	8709.2	8733.3	8766.5	8757.4	8766.5	8751.4	8763.4	8751.4
25°	9062.5	9089.6	9083.6	9083.6	9101.8	9122.8	9125.9	9144.0	9140.9	9156.0	9146.9
27.5°	9485.3	9527.5	9539.7	9536.5	9548.6	9569.8	9575.8	9597.0	9584.9	9597.0	9590.9
30°	9992.6	10010.7	10034.8	10043.8	10059.0	10080.1	10080.1	10083.2	10068.0	10086.2	10095.2
32.5°	10518.1	10551.2	10575.4	10629.8	10656.9	10672.0	10669.0	10675.0	10660.0	10684.1	10702.3
35°	11212.6	11236.8	11276.0	11318.2	11354.6	11351.5	11342.4	11345.5	11345.5	11366.6	11384.7
37.5°	12049.1	12055.1	12106.5	12166.8	12184.9	12166.8	12112.5	12100.4	12073.2	12100.4	12130.6
40°	12933.9	12955.0	13057.7	13096.9	13105.9	13072.8	12994.3	12949.0	12888.6	12921.8	12964.0
42.5°	13860.9	13903.2	13996.8	14066.2	14096.5	14075.4	13966.6	13897.2	13818.7	13836.8	13879.1
45°	14887.6	14939.0	15071.9	15138.3	15195.7	15162.5	15056.8	14951.1	14827.2	14836.4	14902.8
47.5°	16035.2	16086.6	16258.7	16370.5	16400.6	16394.6	16276.8	16131.8	15962.8	15956.7	16014.1
50°	17321.6	17373.0	17587.4	17759.5	17847.1	17838.0	17699.1	17493.8	17288.4	17291.5	17363.9
52.5°	18577.9	18641.3	18864.8	19160.7	19332.9	19456.7	19372.1	19178.9	18928.2	18934.2	19000.6
55°	19755.6	19861.3	20118.0	20519.7	20839.8	21187.0	21286.7	21280.7	21129.6	21171.9	21238.4
57.5°	20326.4	20483.4	20879.0	21513.1	22165.4	22872.2	23470.0	23917.0	24107.2	24394.1	24327.6
60°	19245.3	19495.9	20078.8	21011.8	22301.4	23775.1	25354.3	26897.5	28214.1	29207.6	28636.9
62.5°	15757.4	16083.5	16790.2	17986.0	19936.9	22295.3	25318.1	28966.0	32940.1	35337.8	33625.6
65°	9859.7	10197.9	10916.6	12197.0	14480.0	17412.2	21513.1	27558.8	34984.6	38599.3	35114.4
67.5°	3844.2	4028.4	4418.0	5236.4	6951.6	9560.7	13676.7	20537.8	29419.0	32586.8	28872.5
70°	1926.7	1944.9	2017.3	2168.2	2536.7	3294.6	5013.0	9521.5	16871.7	20377.7	16264.8
72.5°	1392.2	1395.1	1431.4	1497.8	1615.6	1784.7	2110.9	2914.2	5487.0	8385.9	5142.8
75°	1066.1	1078.1	1099.2	1135.4	1198.9	1283.5	1401.1	1679.0	2080.7	2412.9	2029.3
77.5°	821.4	845.5	860.6	893.8	933.1	990.6	1023.8	1129.4	1313.7	1383.1	1361.9
80°	625.1	646.3	679.5	706.7	733.7	761.0	748.9	797.3	893.8	951.2	921.0
82.5°	398.6	422.8	519.4	543.6	555.7	573.7	552.7	555.7	597.9	634.1	597.9
85°	256.6	271.8	329.2	359.4	362.4	374.4	365.4	344.2	344.2	314.0	353.4
87.5°	117.8	120.8	147.9	175.2	181.2	163.2	160.1	154.0	123.8	117.8	126.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9	7295.9
2.5°	7292.8	7298.8	7301.9	7311.0	7314.1	7314.1	7317.0	7323.1
5°	7350.2	7359.2	7362.3	7374.4	7377.4	7374.4	7380.5	7383.4
7.5°	7452.9	7468.0	7474.0	7486.1	7477.0	7489.1	7492.1	7492.1
10°	7603.9	7618.9	7622.0	7634.1	7628.1	7634.1	7634.1	7628.1
12.5°	7803.2	7806.2	7797.2	7806.2	7794.1	7800.1	7791.2	7785.0
15°	8023.7	8014.6	7993.4	7993.4	7975.4	7978.3	7975.4	7972.3
17.5°	8238.0	8219.9	8204.9	8198.9	8183.7	8180.7	8171.6	8171.6
20°	8473.6	8464.6	8455.5	8443.4	8428.3	8413.2	8410.2	8416.2
22.5°	8757.4	8754.4	8754.4	8748.4	8727.3	8712.2	8703.1	8703.1
25°	9138.0	9110.8	9110.8	9107.8	9098.7	9089.6	9071.6	9080.5
27.5°	9566.7	9551.7	9563.8	9560.7	9551.7	9551.7	9539.7	9539.7
30°	10095.2	10089.2	10107.3	10092.2	10062.0	10059.0	10046.9	10031.8
32.5°	10705.2	10699.2	10726.4	10708.3	10660.0	10632.8	10608.6	10596.5
35°	11384.7	11387.8	11421.0	11408.9	11354.6	11336.4	11294.1	11288.1
37.5°	12127.6	12175.9	12233.3	12245.3	12200.1	12188.0	12142.6	12118.5
40°	13000.3	13063.7	13151.3	13172.4	13124.1	13115.1	13051.7	13018.5
42.5°	13930.4	14039.2	14147.9	14165.9	14117.6	14069.4	14008.9	13984.7
45°	14969.2	15099.1	15241.0	15277.2	15204.7	15147.3	15068.9	15068.9
47.5°	16134.9	16297.9	16457.9	16557.7	16491.1	16430.9	16337.2	16276.8
50°	17511.8	17735.4	17943.7	18046.5	17940.7	17825.9	17662.9	17608.5
52.5°	19239.3	19480.8	19662.0	19607.6	19444.6	19284.6	19106.3	19033.9
55°	21443.7	21525.2	21525.2	21319.9	20993.7	20725.0	20444.1	20350.5
57.5°	24200.8	23886.7	23403.6	22790.5	22020.4	21350.2	20897.2	20682.7
60°	27441.0	25931.1	24225.0	22548.9	21171.9	20036.5	19363.0	19055.1
62.5°	29600.2	25650.4	22231.8	19541.2	17560.2	16192.2	15262.1	14899.8
65°	27664.6	21392.4	16814.4	13595.2	11436.0	10043.8	9122.8	8784.7
67.5°	20263.0	13404.9	8953.8	6417.2	4701.9	3750.7	3373.2	3216.1
70°	9095.8	4720.0	2892.9	2258.8	1947.8	1787.7	1718.3	1694.1
72.5°	2742.0	1984.0	1673.0	1509.9	1386.1	1307.7	1250.3	1244.1
75°	1654.8	1377.0	1223.0	1126.4	1047.9	984.4	954.3	945.2
77.5°	1156.6	1011.6	939.2	869.7	809.3	761.0	733.7	712.7
80°	812.4	742.9	709.6	670.5	631.2	585.8	546.7	528.5
82.5°	543.6	528.5	528.5	504.3	471.1	428.9	350.2	332.1
85°	350.2	347.2	353.4	344.2	320.1	274.8	226.5	214.3
87.5°	163.2	166.1	184.2	181.2	175.2	145.0	114.7	108.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)