

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: LUMARK

Report Number: P884649

Luminaire Tested: **NAV-SB5C-760-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-760-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40999 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

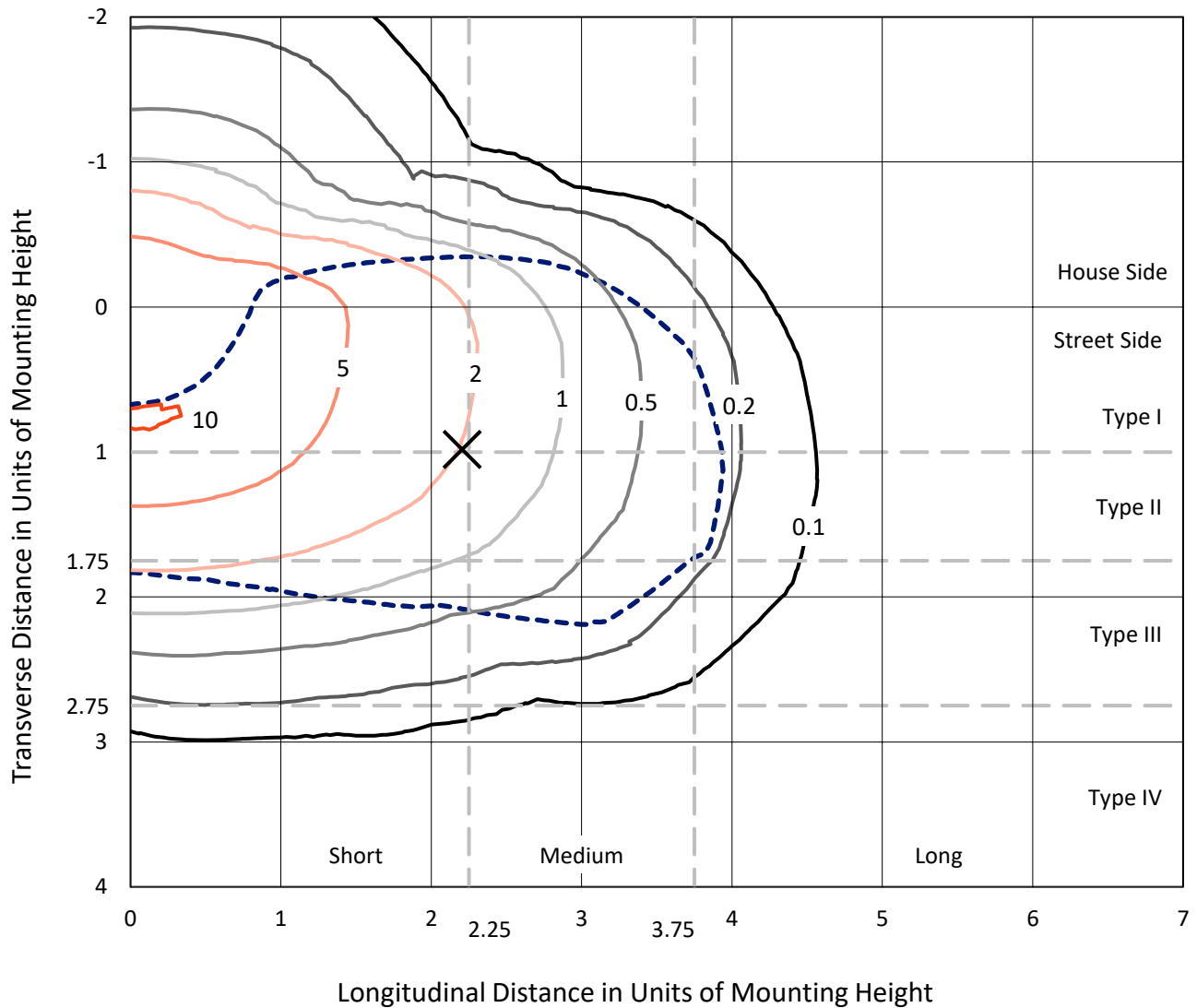
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

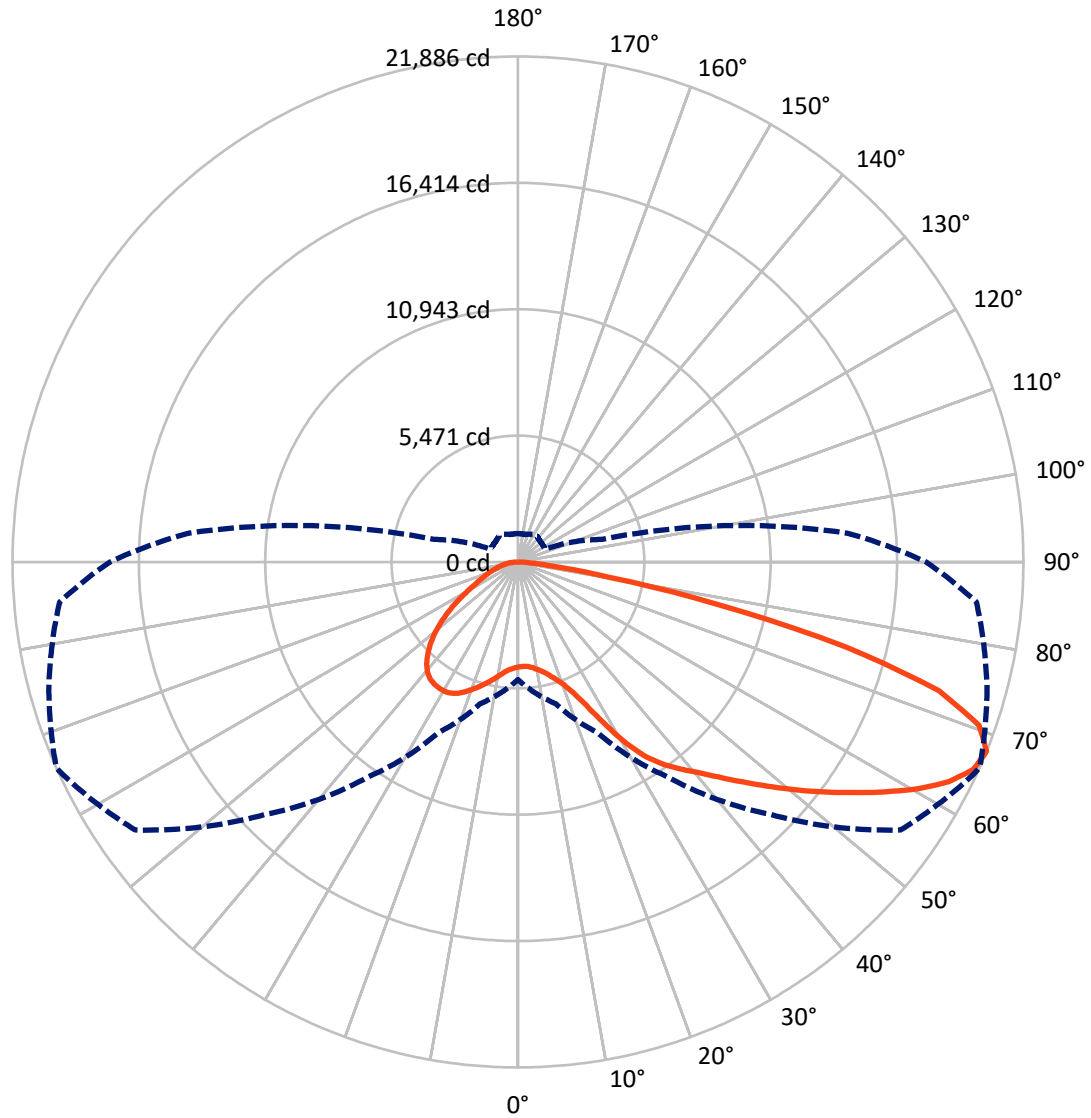
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10194.3	0.0	10194.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30804.7	0.0	30804.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	40999.0	0.0	40999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.8	1.1
10°-20°	1489.5	3.6
20°-30°	2871.0	7.0
30°-40°	5034.0	12.3
40°-50°	7483.8	18.3
50°-60°	9486.5	23.1
60°-70°	9282.3	22.6
70°-80°	4427.8	10.8
80°-90°	473.2	1.2
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°	40999.0	100.0
0°-180°	40999.0	100.0

Coefficient of Utilization



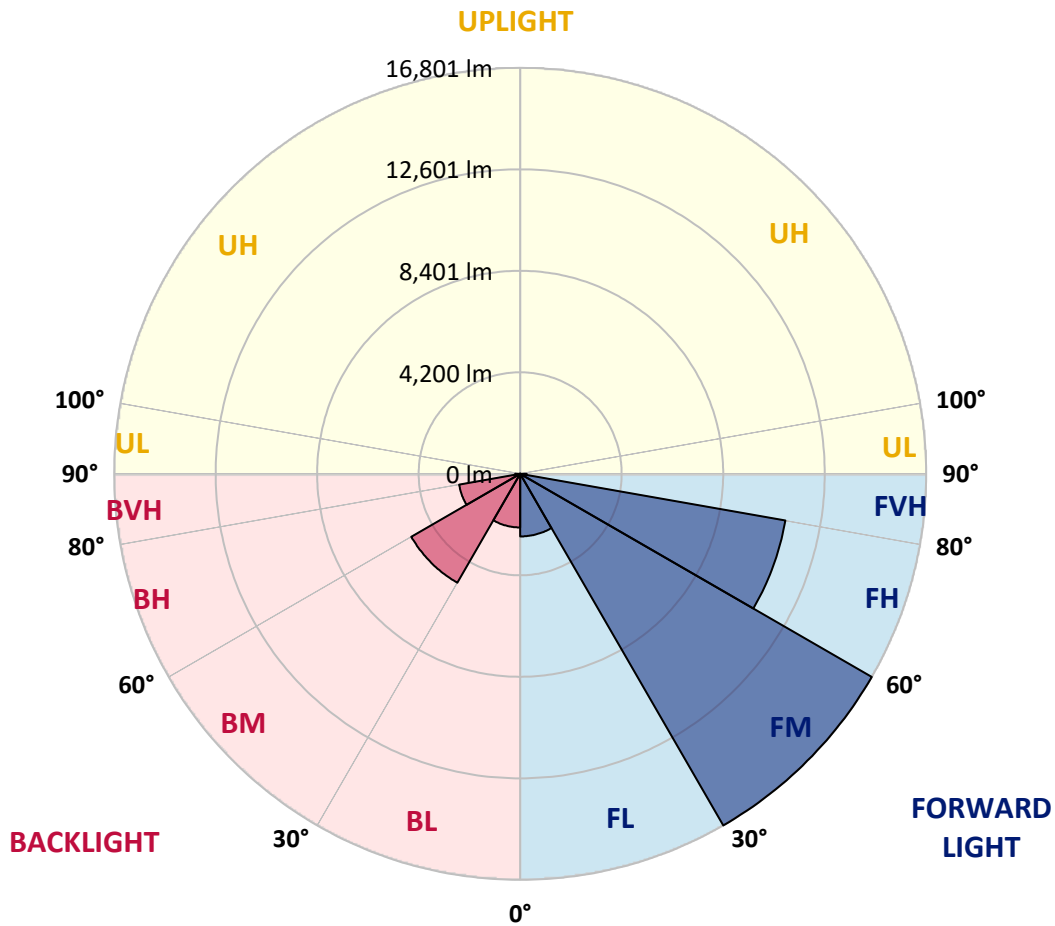
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2590.7	6.3			
FM (30°-60°)	16801.0	41.0			
FH (60°-80°)	11144.7	27.2			G4/12000
FVH (80°-90°)	268.3	0.7			G3/500
BL (0°-30°)	2220.7	5.4	B3/2500		
BM (30°-60°)	5203.3	12.7	B4/8500		
BH (60°-80°)	2565.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	204.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3
2.5°	4499.9	4525.8	4519.3	4508.6	4506.4	4510.7	4517.2	4523.6	4521.5	4532.3	4549.5
5°	4487.0	4512.9	4510.7	4510.7	4519.3	4536.6	4547.3	4558.1	4547.3	4560.3	4584.0
7.5°	4495.6	4515.0	4523.6	4532.3	4553.8	4586.1	4612.0	4635.6	4622.7	4637.8	4668.0
10°	4605.5	4620.6	4629.2	4629.2	4644.3	4680.9	4706.7	4749.8	4739.0	4762.7	4801.5
12.5°	4805.8	4820.9	4820.9	4812.3	4823.1	4846.8	4855.4	4902.8	4883.4	4922.1	4960.9
15°	5051.4	5081.6	5057.9	5042.8	5047.1	5070.8	5068.6	5105.2	5085.9	5118.2	5152.6
17.5°	5322.8	5361.6	5322.8	5320.7	5312.0	5337.9	5340.0	5372.4	5337.9	5361.6	5385.3
20°	5643.8	5697.6	5665.3	5676.1	5656.7	5667.5	5678.2	5725.6	5671.8	5689.0	5682.5
22.5°	6096.1	6160.8	6126.3	6167.2	6154.3	6145.7	6143.5	6227.5	6143.5	6150.0	6087.5
25°	6755.3	6832.8	6772.5	6828.5	6828.5	6856.5	6888.9	6996.6	6856.5	6815.6	6654.1
27.5°	7729.0	7806.5	7688.0	7722.5	7711.7	7780.7	7746.2	8013.3	7862.5	7795.7	7470.5
30°	8900.8	9038.7	8814.6	8806.0	8795.2	8905.1	8954.6	9131.3	8978.3	8911.6	8519.5
32.5°	10167.4	10311.7	10044.6	9967.1	9926.1	9992.9	9952.0	10094.2	9988.6	9885.2	9400.5
35°	11507.3	11649.4	11395.3	11244.5	11080.8	10940.7	10794.3	10830.9	10731.8	10574.5	10072.6
37.5°	12773.9	13034.5	12765.3	12603.7	12302.1	12028.6	11619.3	11449.1	11356.5	11212.2	10705.9
40°	14064.2	14212.8	14008.2	13870.3	13542.9	13114.2	12459.4	12099.6	11974.7	11834.7	11406.0
42.5°	15014.2	15156.3	15046.5	14951.7	14695.4	14197.8	13351.2	12901.0	12720.0	12562.8	12198.7
45°	15768.1	15873.7	15804.7	15839.2	15729.3	15246.8	14275.3	13760.5	13573.1	13381.3	13094.8
47.5°	16071.8	16183.8	16293.7	16498.3	16685.8	16330.3	15268.3	14691.0	14492.9	14296.8	14014.7
50°	16037.4	16151.5	16470.3	16905.5	17487.1	17368.6	16315.2	15681.9	15498.8	15274.8	15014.2
52.5°	15761.6	15890.9	16300.2	17023.9	17950.2	18146.2	17381.5	16705.1	16532.8	16265.7	16005.1
55°	15037.9	15115.4	15729.3	16754.7	18060.1	18689.1	18426.3	17795.1	17622.8	17250.1	16965.8
57.5°	13695.8	13807.9	14701.8	16028.7	17784.4	19057.4	19343.9	18941.1	18775.2	18238.9	17941.6
60°	11944.6	12123.3	13146.5	14809.5	17082.1	19055.3	20177.6	20067.7	19929.8	19212.5	18902.3
62.5°	9962.8	10169.6	11154.0	13086.2	15854.3	18514.6	20698.9	21011.2	20940.1	20110.8	19714.4
65°	7651.4	7793.6	8773.7	10856.7	13943.6	17353.5	20759.2	21655.3	21668.2	20793.6	20138.8
67.5°	5094.5	5503.8	6354.6	8146.9	11384.5	15455.8	20229.3	21760.8	21885.8	21028.4	19925.5
70°	2485.8	3024.4	3858.0	5294.8	8146.9	12545.5	18844.2	20894.9	21172.8	20343.4	18654.6
72.5°	1031.8	1206.3	1660.8	2612.9	4676.6	8465.7	16061.1	18546.9	19061.7	18025.6	15684.1
75°	695.8	753.9	950.0	1339.9	2130.4	4174.7	11582.7	13829.4	14658.7	13614.0	11128.1
77.5°	536.4	573.0	691.5	937.0	1266.6	1579.0	6199.5	8334.3	8762.9	8112.4	5790.3
80°	422.2	450.2	517.0	682.9	898.3	844.4	2113.2	3776.2	4023.9	3375.5	1861.2
82.5°	366.2	377.0	370.5	463.1	596.7	493.3	693.6	1393.7	1538.0	1115.8	607.5
85°	265.0	295.1	308.0	286.5	316.7	249.9	284.3	493.3	542.8	484.7	342.5
87.5°	107.7	159.4	196.0	185.3	116.3	71.1	88.3	144.3	165.9	180.9	112.0
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°	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3
2.5°	4551.6	4566.7	4577.5	4590.4	4599.0	4612.0	4637.8	4652.9	4655.0	4665.8	4663.7
5°	4592.6	4614.1	4637.8	4672.3	4711.0	4743.4	4792.9	4827.4	4840.3	4851.1	4848.9
7.5°	4680.9	4711.0	4754.1	4814.4	4870.4	4913.5	4973.8	5014.8	5055.7	5070.8	5072.9
10°	4812.3	4855.4	4917.8	4999.7	5060.0	5116.0	5178.5	5213.0	5253.9	5271.1	5279.7
12.5°	4976.0	5021.2	5103.1	5217.3	5273.3	5312.0	5333.6	5325.0	5333.6	5348.7	5353.0
15°	5163.4	5213.0	5305.6	5428.4	5467.1	5432.7	5385.3	5342.2	5335.7	5340.0	5355.1
17.5°	5385.3	5421.9	5529.6	5633.0	5605.0	5462.8	5359.4	5290.5	5256.0	5245.3	5260.3
20°	5695.5	5695.5	5783.8	5848.4	5661.0	5419.7	5258.2	5146.2	5075.1	5044.9	5038.5
22.5°	6072.4	6038.0	6094.0	6048.7	5650.2	5299.1	5075.1	4881.2	4773.5	4730.4	4724.0
25°	6550.7	6509.7	6494.6	6214.6	5572.7	5107.4	4743.4	4508.6	4413.8	4390.1	4394.4
27.5°	7272.3	7168.9	6972.9	6305.1	5430.5	4805.8	4355.6	4138.0	4084.2	4086.4	4092.8
30°	8233.0	8026.2	7545.9	6320.2	5197.9	4379.3	3959.3	3804.2	3778.3	3789.1	3825.7
32.5°	9122.7	8926.6	8131.8	6251.2	4840.3	3961.4	3603.8	3500.4	3461.7	3474.6	3491.8
35°	9820.6	9766.7	8674.6	6154.3	4400.9	3569.4	3285.0	3196.7	3121.3	3104.1	3117.0
37.5°	10479.8	10458.2	9081.7	6018.6	3965.7	3291.5	3028.7	2912.4	2802.5	2742.2	2744.3
40°	11203.5	11182.0	9348.8	5809.6	3580.1	3050.2	2798.2	2645.2	2509.5	2399.7	2410.5
42.5°	12017.8	11890.7	9475.9	5510.2	3252.7	2845.6	2610.8	2404.0	2225.2	2124.0	2130.4
45°	12907.4	12620.9	9473.8	5128.9	2977.0	2658.2	2410.5	2117.5	1951.6	1856.8	1852.5
47.5°	13850.9	13318.9	9357.5	4706.7	2709.9	2451.4	2100.3	1876.2	1766.4	1708.2	1695.3
50°	14824.6	13971.6	9159.3	4222.1	2436.3	2216.6	1906.4	1753.4	1669.4	1615.6	1596.2
52.5°	15740.1	14564.0	8920.2	3672.8	2158.4	1988.2	1820.2	1701.7	1613.4	1553.1	1527.3
55°	16591.0	15074.5	8582.0	3110.5	1932.2	1835.3	1779.3	1680.2	1579.0	1507.9	1479.9
57.5°	17347.1	15406.2	7998.2	2582.8	1770.7	1729.8	1736.2	1643.6	1527.3	1467.0	1428.2
60°	17976.1	15649.6	7134.4	2093.8	1639.3	1626.4	1669.4	1574.7	1438.9	1370.0	1339.9
62.5°	18353.0	15645.3	6074.6	1714.7	1527.3	1531.6	1581.1	1488.5	1350.6	1286.0	1266.6
65°	18320.7	15261.9	4911.4	1467.0	1419.6	1423.9	1488.5	1393.7	1277.4	1238.6	1236.5
67.5°	17672.3	14327.0	3767.5	1305.4	1301.1	1320.5	1395.9	1329.1	1232.2	1227.8	1234.3
70°	15916.7	12386.1	2714.2	1176.1	1178.3	1206.3	1305.4	1288.2	1208.5	1217.1	1214.9
72.5°	12763.1	9443.6	1822.4	1040.4	1042.6	1087.8	1219.2	1255.8	1184.8	1298.9	1316.2
75°	8500.1	5889.3	1171.8	896.1	898.3	956.4	1143.8	1193.4	1120.1	1294.6	1305.4
77.5°	4084.2	2647.4	848.7	753.9	753.9	807.8	988.7	1068.4	954.3	1006.0	922.0
80°	1410.9	995.2	667.8	607.5	594.5	631.2	833.6	926.3	822.9	758.2	710.9
82.5°	555.8	517.0	536.4	471.8	428.7	452.4	648.4	764.7	605.3	547.1	545.0
85°	318.8	336.0	379.1	312.3	247.7	277.9	476.1	549.3	456.7	402.8	411.4
87.5°	86.2	118.5	174.5	161.6	112.0	118.5	226.2	303.7	262.8	202.5	208.9
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)