

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: P884587

Luminaire Tested: **NAV-SB5C-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30006 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

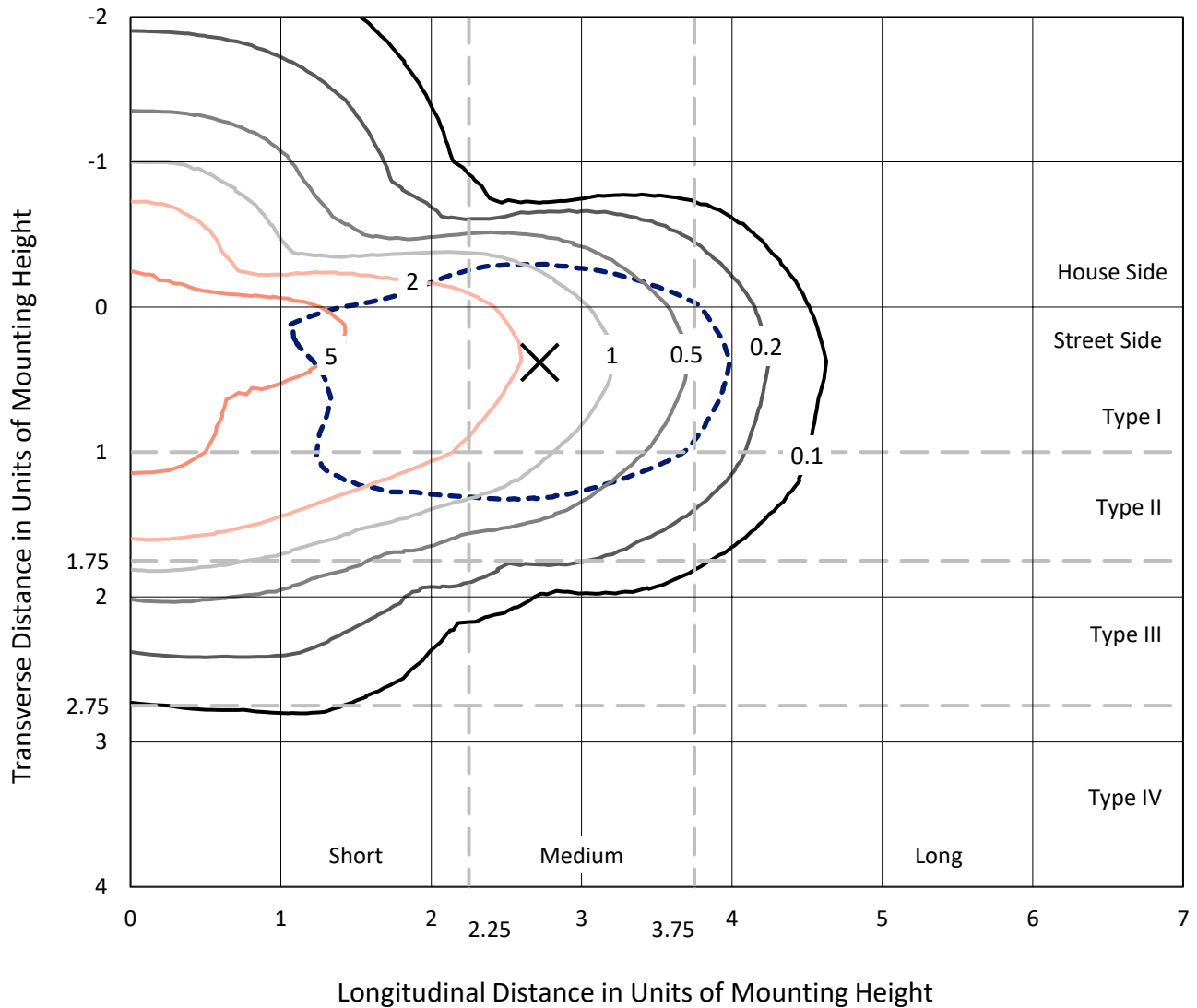
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

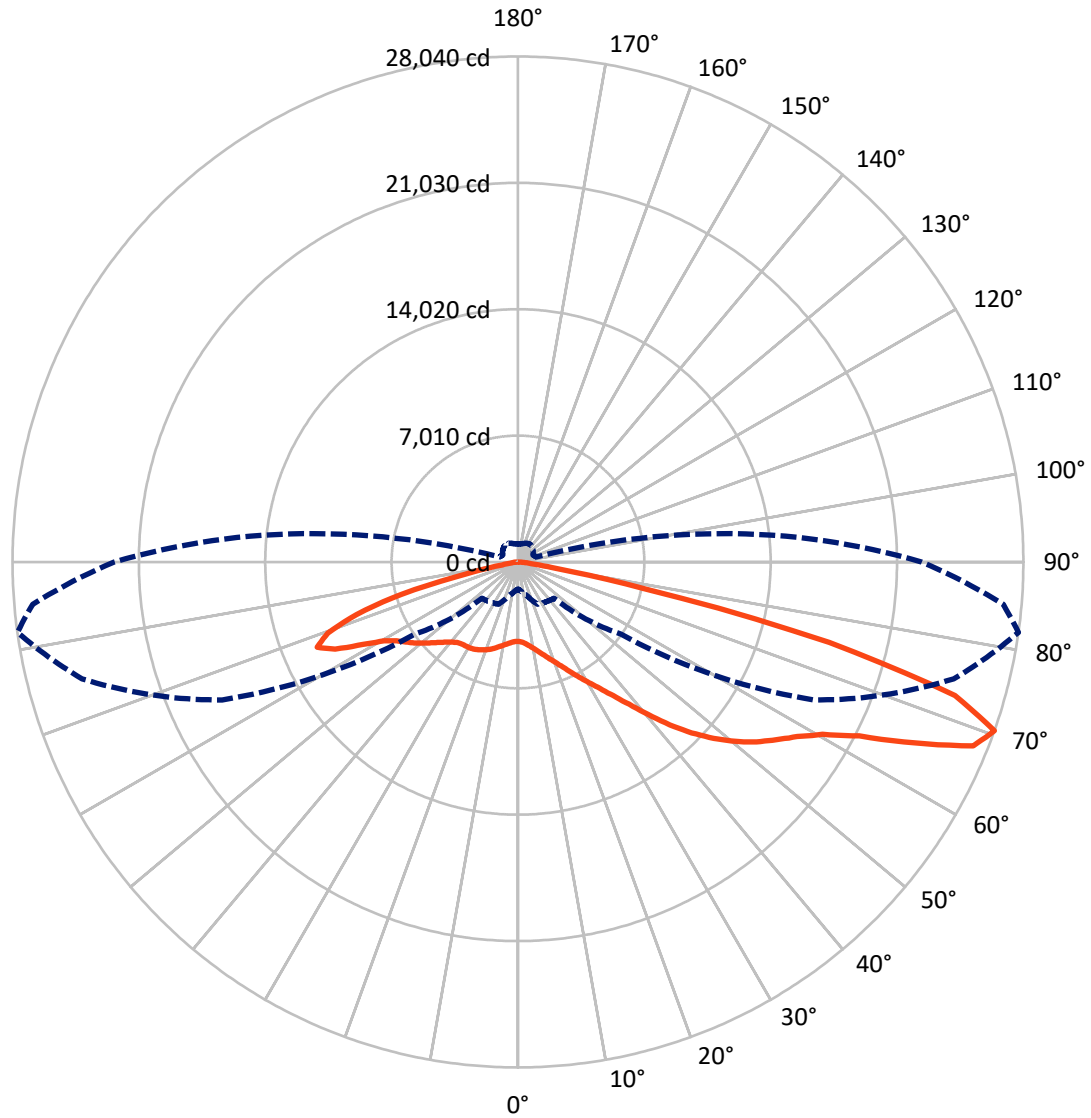
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7397.2	0.0	7397.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22608.8	0.0	22608.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	30006.0	0.0	30006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.4	1.4
10°-20°	1193.4	4.0
20°-30°	1996.4	6.7
30°-40°	3118.9	10.4
40°-50°	4967.2	16.6
50°-60°	6912.5	23.0
60°-70°	7230.7	24.1
70°-80°	3779.2	12.6
80°-90°	392.4	1.3
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°	30006.0	100.0
0°-180°	30006.0	100.0

Coefficient of Utilization

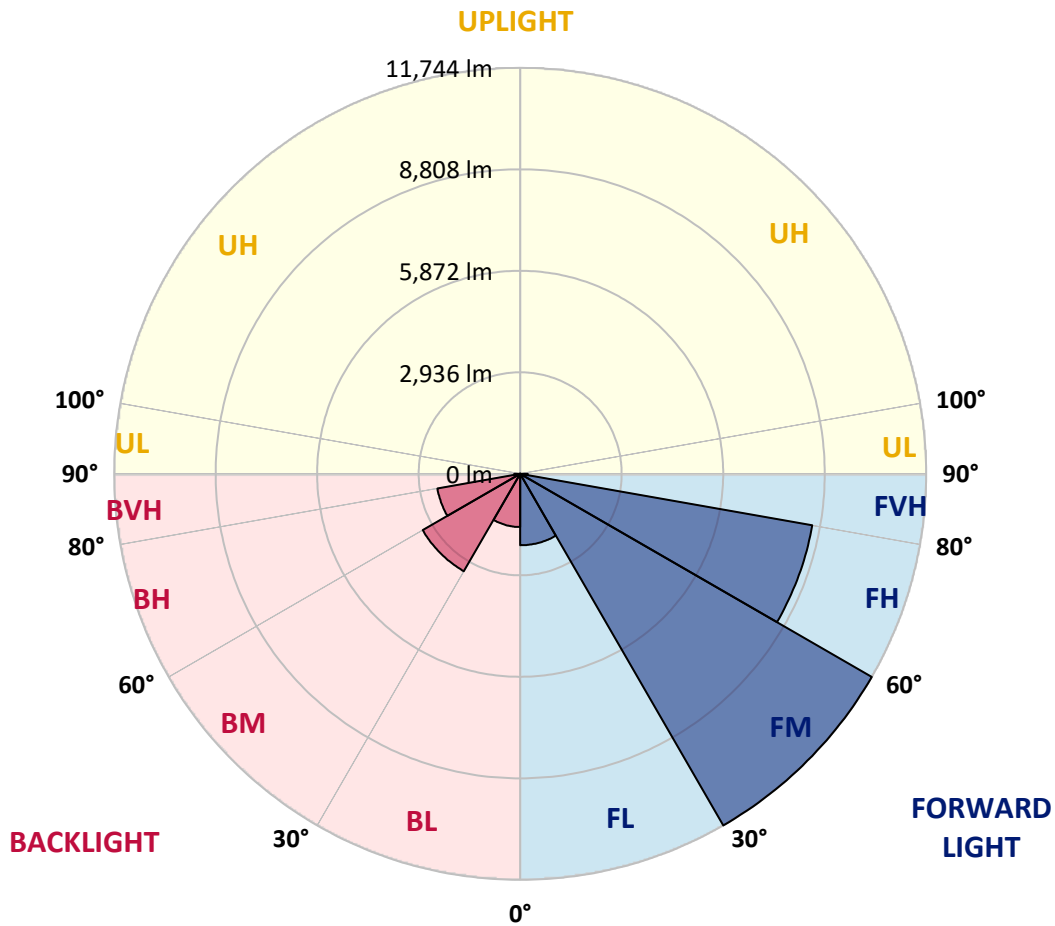


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.2	6.9			
FM (30°-60°)	11744.0	39.1			
FH (60°-80°)	8578.8	28.6			G4/12000
FVH (80°-90°)	219.7	0.7			G2/225
BL (0°-30°)	1538.9	5.1	B3/2500		
BM (30°-60°)	3254.5	10.8	B3/5000		
BH (60°-80°)	2431.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	172.7	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3
2.5°	4504.3	4529.8	4521.9	4513.9	4513.9	4502.7	4501.2	4485.2	4472.5	4451.8	4447.0
5°	4561.7	4588.7	4585.5	4591.9	4612.6	4617.4	4622.2	4612.6	4587.1	4561.7	4550.5
7.5°	4510.7	4541.0	4550.5	4588.7	4652.4	4709.7	4752.7	4770.2	4746.4	4709.7	4692.2
10°	4338.8	4372.2	4405.6	4496.4	4609.4	4744.8	4859.4	4927.9	4923.1	4888.1	4857.8
12.5°	3990.1	4025.1	4096.7	4273.5	4480.5	4719.3	4932.6	5075.9	5125.3	5099.8	5047.3
15°	3711.4	3741.7	3795.8	3977.3	4246.4	4609.4	4959.7	5238.3	5364.1	5349.8	5286.1
17.5°	3703.5	3716.2	3749.6	3835.6	4042.6	4437.5	4931.1	5397.6	5638.0	5636.4	5556.8
20°	3843.6	3848.4	3867.5	3885.0	4002.8	4306.9	4857.8	5529.7	5945.3	5945.3	5859.3
22.5°	4037.8	4034.6	4053.7	4037.8	4095.1	4295.8	4811.6	5645.9	6287.6	6313.1	6204.8
25°	4329.2	4313.3	4308.5	4271.9	4283.0	4399.3	4862.6	5778.1	6693.6	6746.2	6610.8
27.5°	4717.7	4692.2	4674.7	4590.3	4561.7	4612.6	5018.6	5937.3	7145.8	7236.6	7064.6
30°	5224.0	5177.8	5152.4	5005.9	4902.4	4910.4	5254.3	6149.1	7618.7	7765.2	7547.0
32.5°	5915.0	5843.4	5774.9	5534.5	5345.0	5282.9	5558.4	6442.1	8131.4	8365.4	8085.2
35°	6688.8	6631.5	6558.3	6187.3	5895.9	5752.6	5969.2	6851.2	8731.6	9102.6	8738.0
37.5°	7434.0	7384.6	7419.7	6919.7	6544.0	6335.4	6507.3	7400.6	9472.0	10019.7	9556.4
40°	8204.6	8166.4	8171.2	7693.5	7255.7	7021.6	7160.1	8090.0	10320.7	11110.4	10540.4
42.5°	9042.1	9013.5	8917.9	8494.4	8002.4	7784.3	7911.7	8886.1	11231.4	12352.3	11619.9
45°	9979.9	9962.4	9873.2	9387.6	8824.0	8578.8	8750.7	9765.0	12146.9	13521.0	12704.2
47.5°	10790.4	10804.7	10793.5	10384.3	9800.0	9440.2	9645.6	10682.1	12998.7	14619.6	13743.9
50°	11180.4	11255.3	11365.1	11237.8	10874.7	10508.5	10548.3	11567.3	13810.8	15649.8	14740.6
52.5°	10976.6	11118.3	11417.7	11621.5	11761.6	11685.2	11578.5	12446.2	14575.0	16579.6	15683.2
55°	10217.2	10416.2	10913.0	11404.9	12119.8	12675.5	12815.6	13420.7	15320.2	17398.0	16574.8
57.5°	8833.5	9156.8	9602.6	10597.7	11801.4	13154.8	14258.2	14772.5	16109.9	18272.1	17507.9
60°	6461.2	6894.2	7448.3	8929.1	10686.9	12898.4	15485.8	16848.7	17232.4	19404.2	18722.7
62.5°	4134.9	4402.4	4911.9	6306.7	8327.2	11584.9	15861.5	19444.0	19135.1	21260.7	20544.2
65°	2830.9	3002.9	3469.4	4252.8	5383.2	8623.4	14855.2	21389.6	22157.1	24203.1	23658.5
67.5°	2057.1	2187.7	2585.7	3272.0	3507.6	5103.0	11527.5	21300.5	25094.7	27234.6	26387.6
70°	1499.9	1592.2	1926.6	2585.7	2698.8	2838.9	6983.4	18106.5	25031.0	28040.3	27026.0
72.5°	1111.4	1175.0	1399.5	2006.2	2184.5	1917.0	3456.7	13159.6	21509.1	25362.2	24548.6
75°	804.1	851.8	1017.4	1534.9	1748.2	1460.0	1724.4	7690.3	15003.3	17840.6	17983.9
77.5°	614.6	651.2	759.5	1124.1	1399.5	1095.4	1070.0	3537.9	7114.0	7149.0	7550.2
80°	493.6	517.5	576.4	791.3	1073.1	820.0	697.4	1428.2	2248.2	1902.7	1996.6
82.5°	363.0	402.8	487.2	555.7	767.4	565.2	425.1	721.3	855.0	735.6	742.0
85°	207.0	234.1	294.6	398.1	490.4	345.5	243.6	320.0	398.1	326.4	291.4
87.5°	73.2	95.5	103.5	156.0	213.4	143.3	93.9	92.3	130.6	97.1	81.2
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°	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3	4399.3
2.5°	4431.1	4423.1	4391.3	4348.3	4303.7	4260.7	4246.4	4216.2	4195.5	4184.3	4197.0
5°	4520.3	4494.8	4420.0	4324.4	4224.1	4115.8	4039.4	3969.4	3918.4	3870.6	3889.8
7.5°	4647.6	4603.1	4474.1	4306.9	4128.6	3948.7	3814.9	3713.0	3644.6	3600.0	3609.5
10°	4795.7	4727.2	4529.8	4279.8	4004.4	3746.5	3588.8	3501.3	3458.3	3434.4	3440.7
12.5°	4966.1	4869.0	4587.1	4217.7	3814.9	3520.4	3412.1	3386.6	3388.2	3389.8	3393.0
15°	5176.2	5040.9	4633.3	4082.4	3568.1	3346.8	3327.7	3369.1	3412.1	3432.8	3431.2
17.5°	5413.5	5222.4	4641.3	3859.5	3326.1	3235.4	3295.9	3385.0	3450.3	3479.0	3485.3
20°	5668.2	5407.1	4584.0	3544.2	3127.1	3144.6	3252.9	3367.5	3439.2	3475.8	3485.3
22.5°	5959.6	5604.6	4447.0	3213.1	2964.7	3045.9	3173.3	3284.7	3359.5	3396.2	3405.7
25°	6292.4	5825.9	4232.1	2934.4	2824.6	2934.4	3061.8	3154.2	3214.7	3248.1	3257.6
27.5°	6661.8	6056.7	3945.5	2713.1	2702.0	2819.8	2924.9	2996.5	3028.4	3053.8	3063.4
30°	7032.8	6266.9	3598.4	2545.9	2595.3	2706.7	2781.6	2813.4	2823.0	2827.8	2838.9
32.5°	7434.0	6448.4	3233.8	2407.4	2493.4	2596.9	2641.5	2655.8	2611.2	2581.0	2590.5
35°	7919.6	6642.7	2877.1	2297.5	2393.1	2482.2	2496.6	2483.8	2431.3	2369.2	2372.4
37.5°	8519.9	6884.7	2592.1	2219.5	2299.1	2358.1	2340.5	2337.4	2342.1	2268.9	2273.7
40°	9255.5	7199.9	2383.5	2159.0	2222.7	2235.5	2186.1	2213.2	2237.0	2125.6	2128.8
42.5°	10072.3	7580.5	2251.4	2117.6	2159.0	2128.8	2052.3	2082.6	2079.4	1932.9	1931.3
45°	10905.0	7994.4	2205.2	2087.4	2100.1	2039.6	1955.2	1963.2	1896.3	1764.2	1768.9
47.5°	11732.9	8438.7	2233.9	2061.9	2026.9	1958.4	1893.1	1858.1	1759.4	1660.7	1660.7
50°	12545.0	8905.2	2338.9	2011.0	1926.6	1886.8	1839.0	1776.9	1671.8	1587.4	1581.1
52.5°	13298.1	9374.9	2456.8	1926.6	1800.8	1824.7	1794.4	1722.8	1619.3	1533.3	1534.9
55°	14011.4	9844.6	2502.9	1810.3	1683.0	1770.5	1753.0	1620.9	1496.7	1426.6	1420.2
57.5°	14788.4	10409.8	2452.0	1662.3	1587.4	1708.4	1641.6	1495.1	1423.4	1370.9	1366.1
60°	15864.7	11296.7	2342.1	1479.2	1496.7	1616.1	1501.4	1440.9	1362.9	1304.0	1300.8
62.5°	17652.7	12951.0	2165.4	1297.6	1390.0	1479.2	1434.6	1374.1	1294.5	1237.1	1237.1
65°	20295.8	15250.1	1832.6	1155.9	1270.6	1345.4	1362.9	1302.4	1219.6	1159.1	1162.3
67.5°	22524.9	16692.6	1386.8	1038.1	1148.0	1237.1	1286.5	1227.6	1140.0	1081.1	1082.7
70°	22402.3	15645.0	1058.8	921.9	1039.7	1130.5	1194.2	1148.0	1054.0	998.3	1003.1
72.5°	19897.8	13087.9	856.6	804.1	929.8	1019.0	1095.4	1060.4	964.9	910.7	910.7
75°	14618.0	9290.5	684.6	684.6	792.9	902.8	987.2	964.9	877.3	839.1	827.9
77.5°	6161.8	3897.7	536.6	568.4	659.2	775.4	880.5	888.4	812.0	859.8	780.2
80°	1638.4	1074.7	409.2	447.4	517.5	640.1	765.8	762.7	679.9	635.3	590.7
82.5°	624.1	423.5	291.4	315.3	374.2	490.4	606.6	625.7	542.9	469.7	469.7
85°	240.4	181.5	179.9	189.5	218.1	324.8	458.6	474.5	409.2	347.1	358.2
87.5°	62.1	54.1	66.9	63.7	100.3	173.6	262.7	272.3	250.0	144.9	207.0
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)