

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: P970891

Luminaire Tested: **NAV-SB6C-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33992.1 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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

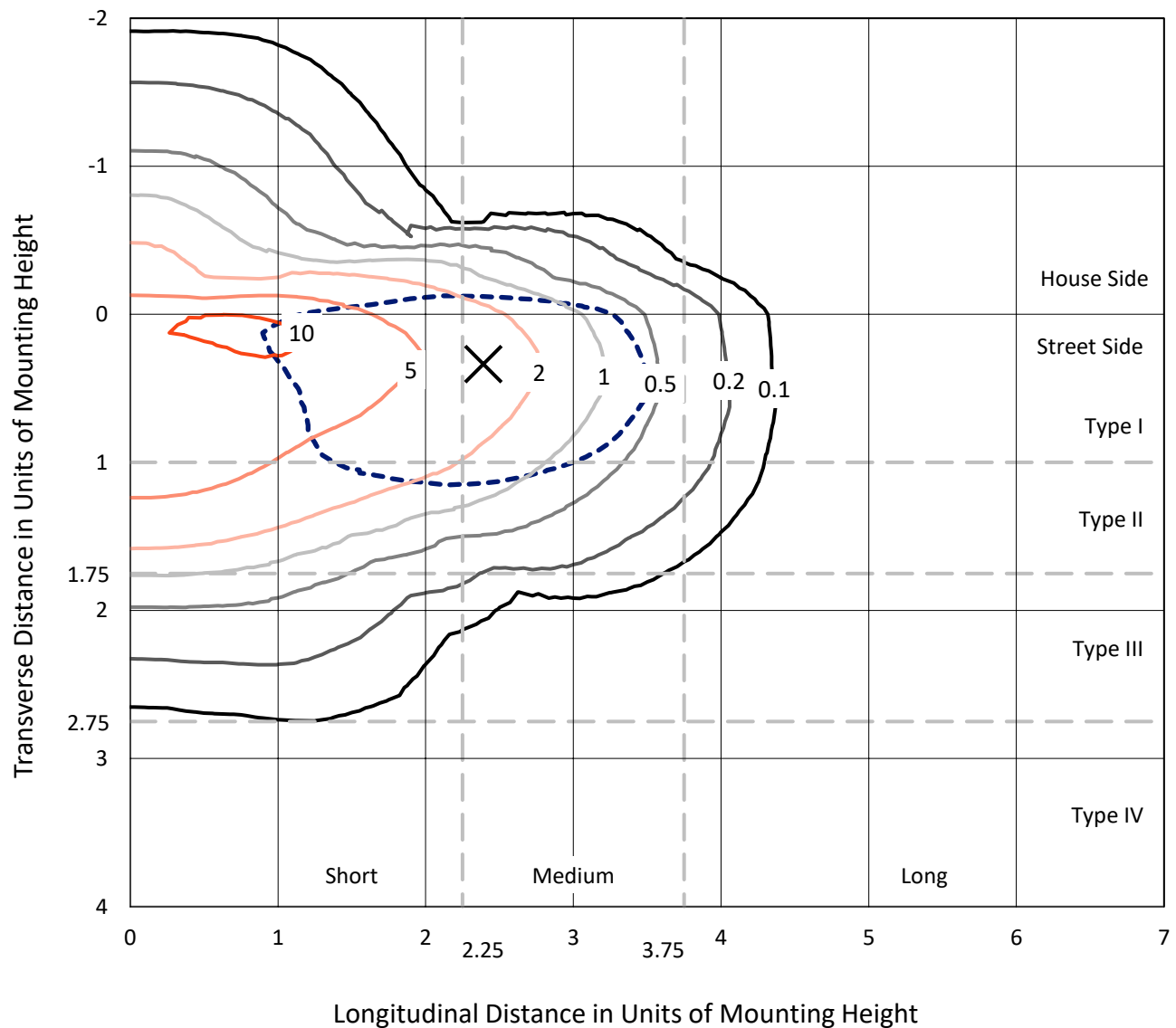


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Iso-Footcandle Lines of Horizontal Illumination

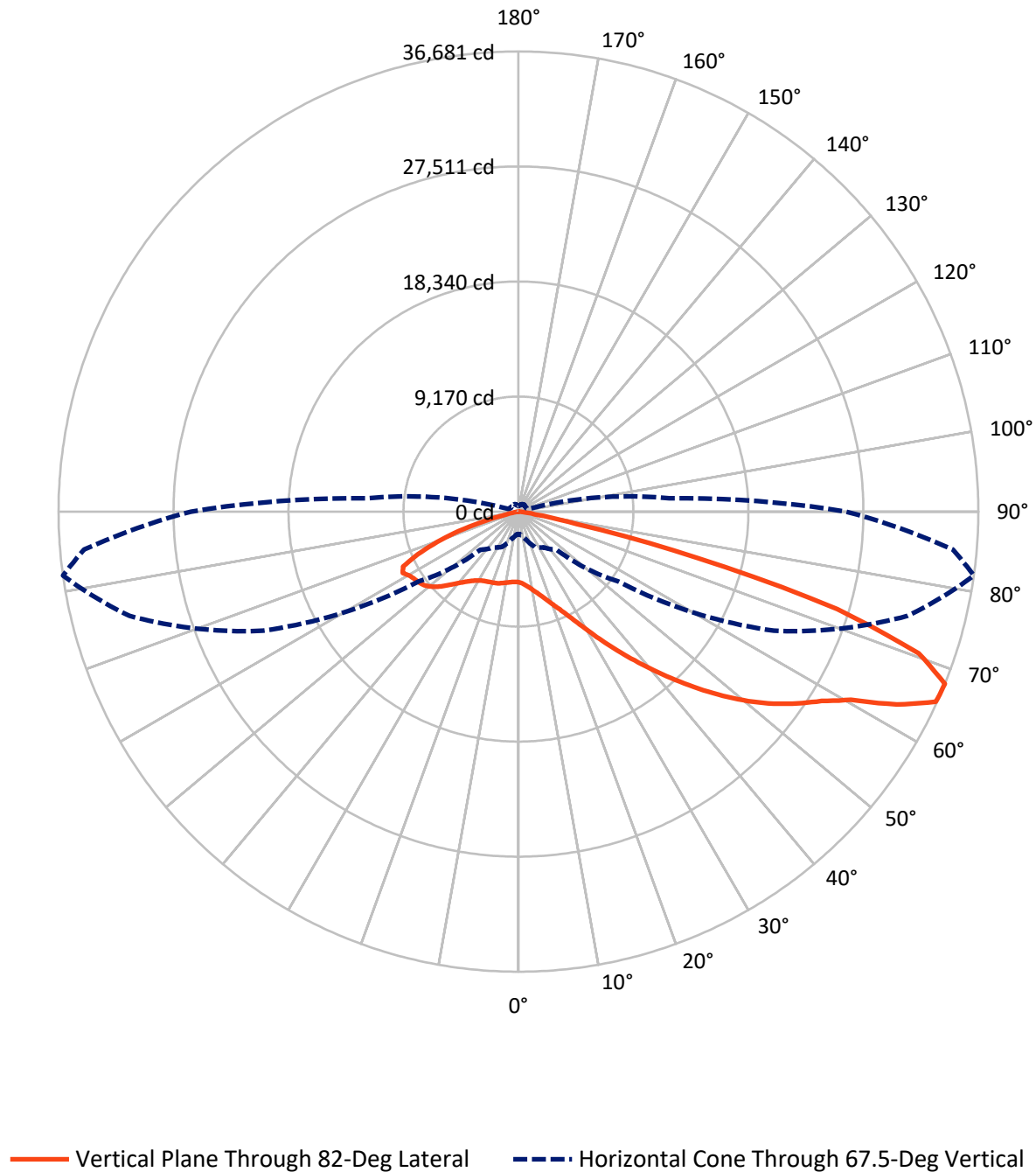
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6157.4	0.0	6157.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27834.7	0.0	27834.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	33992.1	0.0	33992.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.7	1.5
10°-20°	1303.7	3.8
20°-30°	2088.2	6.1
30°-40°	3692.5	10.9
40°-50°	6469.7	19.0
50°-60°	8628.8	25.4
60°-70°	8032.9	23.6
70°-80°	3083.0	9.1
80°-90°	191.5	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°	33992.1	100.0
0°-180°	33992.1	100.0

Coefficient of Utilization



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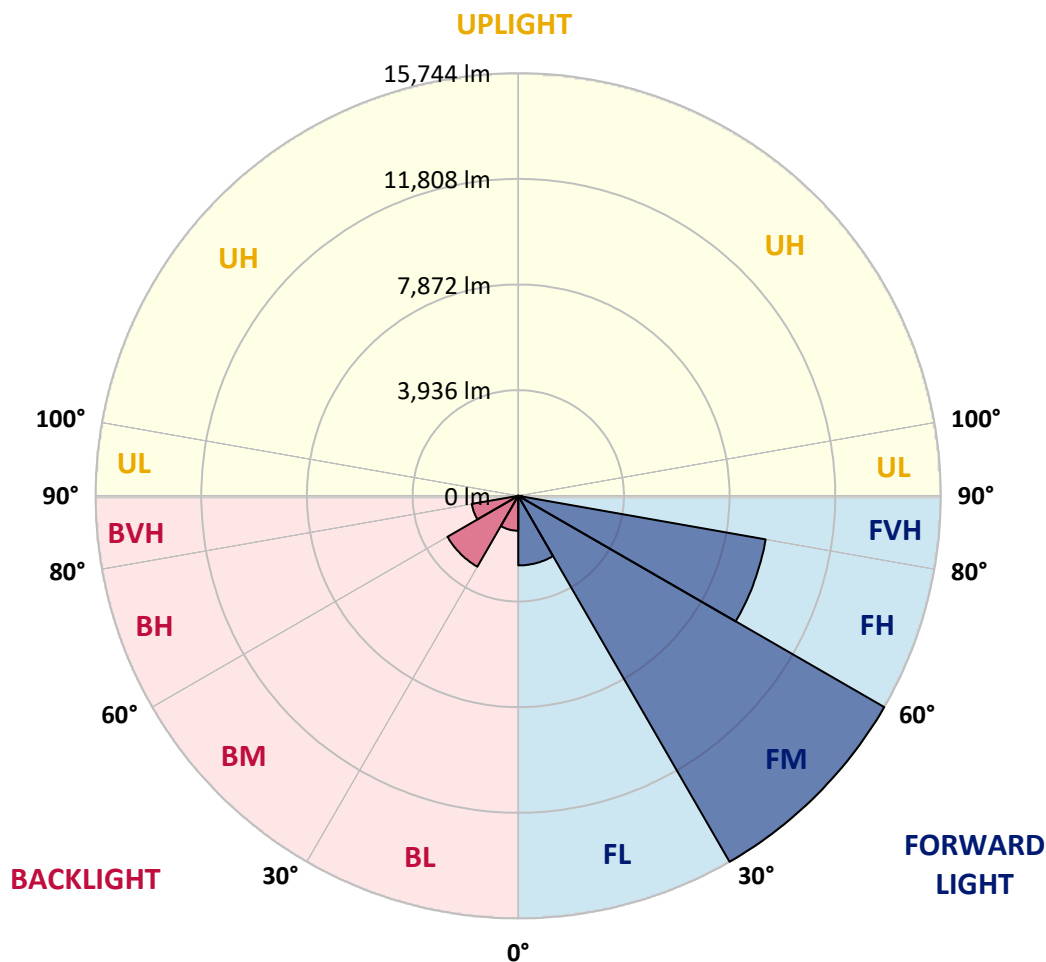
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2593.2	7.6			
FM	(30°-60°)	15743.7	46.3			
FH	(60°-80°)	9358.5	27.5			G4/12000
FVH	(80°-90°)	139.2	0.4			G2/225
BL	(0°-30°)	1300.4	3.8	B3/2500		
BM	(30°-60°)	3047.3	9.0	B3/5000		
BH	(60°-80°)	1757.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	52.3	0.2			G1/100
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°	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3
2.5°	5952.0	5986.2	5966.6	5956.8	5939.7	5915.3	5895.7	5834.5	5770.9	5729.2	5714.6
5°	6071.9	6106.1	6103.7	6113.5	6125.7	6133.1	6128.2	6059.6	5969.1	5898.1	5856.5
7.5°	5969.1	6008.2	6040.0	6089.0	6174.6	6265.2	6309.3	6294.5	6201.6	6103.7	6052.3
10°	5677.9	5719.4	5795.3	5910.4	6091.5	6287.2	6451.2	6527.1	6468.4	6360.6	6289.7
12.5°	5144.3	5185.9	5335.2	5584.8	5888.3	6228.5	6541.8	6744.9	6759.6	6651.8	6568.7
15°	4544.7	4586.4	4745.4	5058.7	5521.2	6067.0	6590.6	6974.9	7104.7	7011.6	6911.3
17.5°	4172.7	4209.5	4329.4	4581.4	5063.6	5743.9	6573.5	7219.7	7515.8	7442.3	7322.5
20°	4060.1	4092.0	4148.3	4324.5	4725.9	5408.6	6461.0	7449.7	7958.7	7917.2	7782.5
22.5°	4180.1	4209.5	4226.6	4304.9	4556.9	5188.3	6319.0	7684.6	8472.8	8477.6	8313.7
25°	4456.6	4486.0	4466.4	4515.3	4625.5	5119.9	6265.2	7961.2	9118.8	9172.6	8986.7
27.5°	4911.8	4914.3	4867.7	4865.4	4882.5	5222.6	6321.5	8257.3	9933.8	10034.1	9804.0
30°	5824.7	5788.0	5609.3	5416.0	5327.8	5531.0	6478.1	8607.3	10895.5	11074.2	10785.5
32.5°	7231.9	7178.1	6850.1	6387.6	5922.6	6027.8	6759.6	9006.3	11943.0	12266.1	11913.7
35°	8759.0	8744.4	8401.7	7714.0	6901.5	6735.1	7217.2	9529.9	13086.0	13599.9	13181.4
37.5°	10178.5	10171.2	9975.4	9165.3	8176.5	7721.3	7951.4	10215.3	14309.6	15053.6	14559.2
40°	11475.6	11497.6	11301.9	10577.4	9581.4	8986.7	8949.9	11062.0	15670.3	16637.1	16049.7
42.5°	12596.4	12620.9	12422.7	11886.7	10969.0	10386.5	10176.1	12099.7	16999.2	18338.0	17642.9
45°	13357.6	13509.3	13480.0	13051.6	12393.4	11788.8	11649.3	13401.7	18514.2	20141.7	19326.7
47.5°	13572.9	13712.4	13932.7	13991.5	13590.1	12995.4	13161.8	14970.4	20046.2	21947.8	21020.2
50°	13041.9	13171.6	13629.2	14238.7	14517.7	14334.1	14632.7	16651.7	21614.9	23749.0	22682.0
52.5°	11994.4	12126.6	12704.2	13668.4	14806.4	15384.0	16108.4	18308.6	23134.8	25454.8	24255.6
55°	10479.5	10619.0	11360.6	12452.1	14255.8	15817.2	17339.4	19963.0	24527.2	26989.3	25675.1
57.5°	8418.8	8521.6	9292.5	10819.7	12870.6	15386.5	18247.4	21769.2	25839.0	28496.8	27082.3
60°	5486.9	5577.5	6473.2	8176.5	10574.9	13947.4	18428.5	23783.3	27581.5	30457.2	28979.0
62.5°	3649.0	3710.2	4241.2	5491.8	7447.2	11184.4	17368.8	25391.2	30136.5	33868.8	32231.5
65°	2503.7	2564.9	3095.9	3967.2	4811.5	7398.3	14321.8	25178.3	32451.8	36577.9	34642.1
67.5°	1786.6	1837.9	2288.3	3110.6	3482.5	4297.5	9708.6	22456.8	32118.9	36680.8	34771.9
70°	1279.9	1309.3	1681.3	2422.9	2767.9	2582.0	5398.9	17175.4	28122.4	33871.2	32123.8
72.5°	895.7	905.5	1167.4	1845.3	2229.6	1884.5	2569.7	11451.1	21269.9	26585.5	24904.1
75°	606.9	619.2	785.6	1353.4	1789.0	1439.0	1360.7	6140.4	12486.3	14715.9	13191.1
77.5°	372.0	376.9	506.6	925.1	1338.6	1096.4	876.2	2601.6	4831.0	4743.0	4043.0
80°	210.4	210.4	323.1	575.1	912.9	707.2	614.3	1106.2	1529.6	1343.6	1184.5
82.5°	117.5	119.9	234.9	357.3	604.4	418.5	337.7	511.5	660.8	584.9	509.0
85°	49.0	53.8	144.4	168.8	288.7	208.1	137.0	215.4	244.8	217.8	159.1
87.5°	4.9	7.4	44.1	31.8	34.2	41.6	19.6	41.6	34.2	34.2	24.5
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°	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3	5631.3
2.5°	5668.0	5631.3	5538.4	5430.7	5288.7	5220.2	5127.2	5063.6	5009.7	5014.6	4965.6
5°	5778.1	5685.2	5477.2	5217.8	4894.7	4664.7	4419.9	4251.1	4113.9	4084.6	4018.5
7.5°	5929.9	5783.0	5418.5	4951.0	4405.2	3991.7	3622.0	3384.7	3215.8	3161.9	3108.1
10°	6125.7	5912.8	5342.5	4615.7	3830.1	3303.9	2907.4	2721.5	2606.4	2567.2	2537.9
12.5°	6353.3	6062.1	5242.3	4207.0	3237.9	2731.2	2479.2	2386.2	2349.4	2337.2	2329.8
15°	6639.6	6248.1	5090.5	3722.4	2736.1	2381.3	2273.6	2261.4	2266.3	2261.4	2258.9
17.5°	6979.8	6451.2	4843.3	3223.1	2398.4	2202.6	2163.5	2173.2	2185.5	2183.0	2178.1
20°	7351.8	6651.8	4527.6	2780.2	2168.4	2075.3	2053.3	2063.1	2072.9	2068.0	2065.6
22.5°	7775.2	6867.3	4177.6	2435.1	2014.1	1957.9	1933.4	1935.8	1935.8	1926.1	1921.2
25°	8281.8	7104.7	3810.5	2190.3	1896.7	1852.7	1823.3	1813.4	1798.8	1769.5	1764.5
27.5°	8886.3	7356.7	3458.1	2019.0	1803.7	1762.1	1727.8	1703.3	1666.6	1617.7	1612.8
30°	9566.6	7662.6	3159.6	1911.4	1730.3	1688.7	1649.5	1612.8	1558.9	1497.7	1492.9
32.5°	10367.0	7990.6	2941.7	1840.4	1664.2	1620.1	1573.7	1529.6	1470.9	1409.7	1412.1
35°	11321.4	8387.1	2814.4	1791.5	1612.8	1554.1	1502.6	1453.8	1409.7	1355.9	1350.9
37.5°	12356.7	8808.0	2775.3	1767.0	1578.5	1488.0	1429.3	1395.0	1390.1	1358.2	1355.9
40°	13489.7	9307.2	2804.6	1752.3	1541.8	1424.3	1360.7	1353.4	1365.6	1309.3	1311.8
42.5°	14689.0	9899.6	2853.6	1735.1	1490.5	1360.7	1299.5	1299.5	1289.8	1211.4	1211.4
45°	15986.0	10582.3	2902.6	1693.6	1429.3	1297.1	1250.6	1233.5	1191.9	1116.0	1113.6
47.5°	17292.9	11277.4	2939.3	1617.7	1355.9	1243.2	1201.6	1162.5	1101.3	1032.8	1030.3
50°	18533.7	11901.5	2900.1	1505.1	1272.6	1191.9	1147.8	1094.0	1027.9	981.3	974.1
52.5°	19642.4	12442.3	2733.7	1373.0	1184.5	1138.1	1098.9	1042.5	988.7	939.8	934.9
55°	20606.6	12880.4	2440.0	1248.1	1106.2	1091.5	1052.4	981.3	907.9	866.3	861.5
57.5°	21531.8	13213.2	2072.9	1145.3	1035.2	1040.2	981.3	917.8	849.2	805.1	800.3
60°	22762.7	13658.6	1700.9	1049.9	959.4	974.1	910.4	863.9	778.3	722.0	714.6
62.5°	24730.4	14351.2	1350.9	932.4	871.2	876.2	849.2	792.9	690.1	624.1	619.2
65°	26291.8	14096.7	1064.6	805.1	770.9	778.3	778.3	717.1	606.9	531.1	523.8
67.5°	26115.6	12070.3	849.2	680.4	675.5	680.4	697.5	646.1	538.4	477.2	467.4
70°	24057.4	9601.0	680.4	565.3	587.3	575.1	624.1	589.8	484.6	423.4	416.0
72.5°	19630.2	6916.2	518.9	467.4	450.3	469.9	562.9	531.1	403.8	335.3	327.9
75°	11470.7	3690.6	386.6	369.5	325.5	391.5	499.3	452.7	308.3	247.2	239.8
77.5°	3734.7	1287.3	283.9	271.6	242.3	315.7	425.9	381.8	252.0	195.8	188.4
80°	1000.9	389.1	193.3	178.7	156.6	234.9	337.7	303.5	181.1	127.3	124.8
82.5°	401.4	164.0	112.5	100.3	85.7	161.5	266.8	244.8	134.6	80.8	80.8
85°	129.7	53.8	41.6	31.8	39.2	100.3	159.1	166.5	95.4	41.6	31.8
87.5°	17.1	7.4	7.4	9.8	7.4	17.1	49.0	46.5	27.0	4.9	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)