

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: P971356

Luminaire Tested: **NAV-SB6D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971356
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-SB6D-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA 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: 42840.9 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

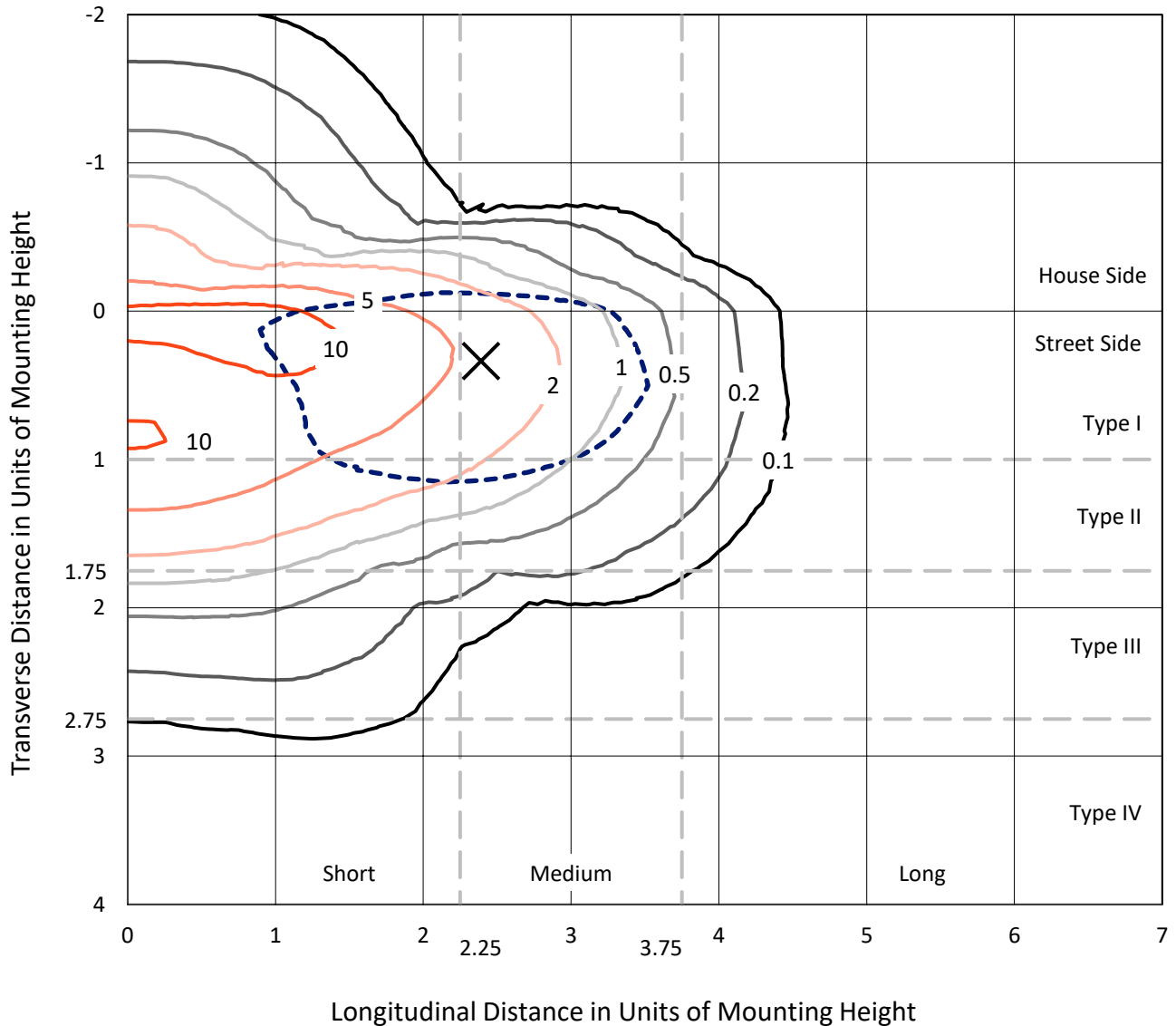
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

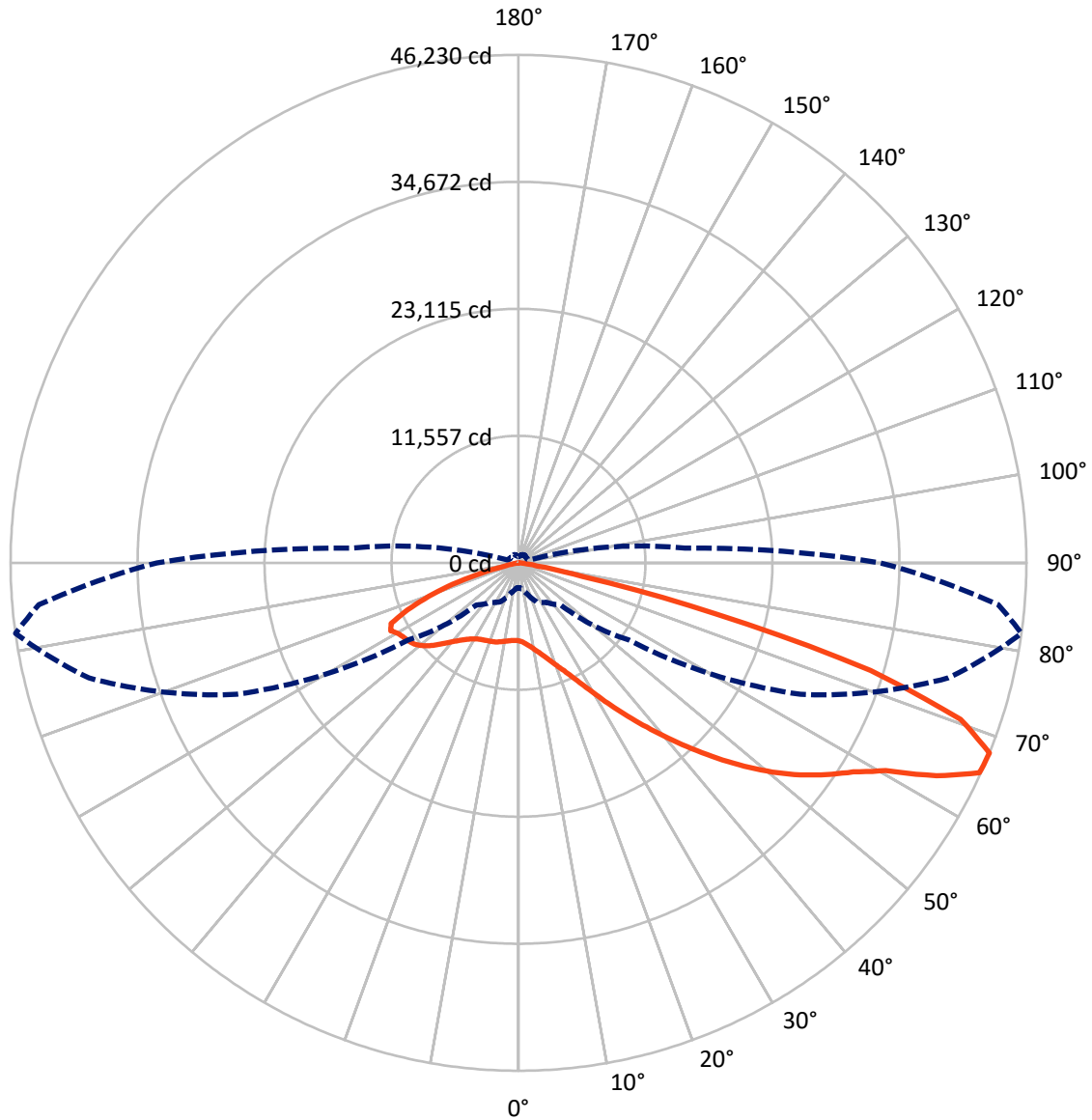
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7760.2	0.0	7760.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35080.6	0.0	35080.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	42840.9	0.0	42840.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.3	1.5
10°-20°	1643.1	3.8
20°-30°	2631.8	6.1
30°-40°	4653.8	10.9
40°-50°	8153.9	19.0
50°-60°	10875.0	25.4
60°-70°	10124.1	23.6
70°-80°	3885.6	9.1
80°-90°	241.3	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°	42840.9	100.0
0°-180°	42840.9	100.0

Coefficient of Utilization



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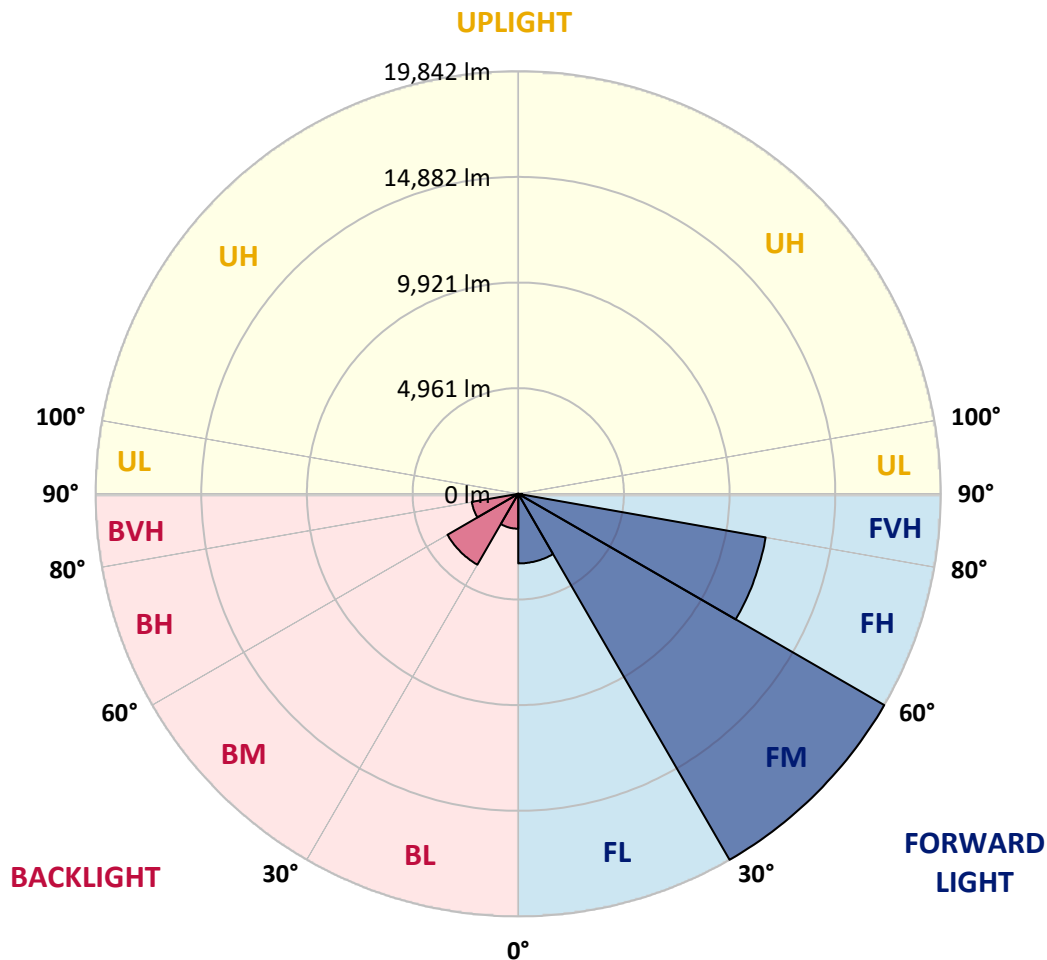
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3268.3	7.6			
FM (30°-60°)	19842.2	46.3			
FH (60°-80°)	11794.7	27.5			G4/12000
FVH (80°-90°)	175.5	0.4			G2/225
BL (0°-30°)	1638.9	3.8	B3/2500		
BM (30°-60°)	3840.5	9.0	B3/5000		
BH (60°-80°)	2214.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	65.9	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°	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3
2.5°	7501.4	7544.5	7519.8	7507.5	7485.9	7455.1	7430.4	7353.2	7273.1	7220.7	7202.2
5°	7652.4	7695.7	7692.6	7704.9	7720.3	7729.6	7723.5	7637.1	7523.0	7433.5	7381.0
7.5°	7523.0	7572.3	7612.4	7674.1	7782.0	7896.2	7951.6	7933.2	7815.9	7692.6	7627.8
10°	7155.9	7208.3	7303.9	7448.9	7677.1	7923.9	8130.6	8226.2	8152.1	8016.4	7927.0
12.5°	6483.5	6535.9	6724.1	7038.7	7421.1	7849.9	8244.7	8500.7	8519.2	8383.5	8278.6
15°	5727.8	5780.3	5980.8	6375.5	6958.5	7646.3	8306.4	8790.6	8954.1	8836.9	8710.4
17.5°	5259.0	5305.2	5456.4	5774.0	6381.6	7239.2	8284.8	9099.1	9472.3	9379.8	9228.6
20°	5117.1	5157.2	5228.1	5450.2	5956.1	6816.6	8142.9	9389.0	10030.5	9978.2	9808.5
22.5°	5268.2	5305.2	5326.8	5425.5	5743.2	6539.0	7964.0	9685.1	10678.3	10684.5	10477.9
25°	5616.8	5653.8	5629.1	5690.8	5829.6	6452.7	7896.2	10033.6	11492.6	11560.5	11326.0
27.5°	6190.5	6193.6	6134.9	6131.9	6153.5	6582.1	7967.1	10406.9	12519.8	12646.1	12356.3
30°	7340.9	7294.7	7069.5	6825.9	6714.8	6970.8	8164.5	10848.0	13731.9	13957.1	13593.1
32.5°	9114.5	9046.6	8633.4	8050.4	7464.4	7597.0	8519.2	11350.7	15052.0	15459.2	15015.0
35°	11039.1	11020.7	10588.9	9722.1	8698.2	8488.3	9096.0	12010.7	16492.5	17140.3	16612.8
37.5°	12828.2	12819.0	12572.1	11551.2	10305.1	9731.3	10021.3	12874.4	18034.7	18972.3	18349.3
40°	14463.0	14490.6	14243.9	13330.9	12075.5	11326.0	11279.8	13941.6	19749.6	20968.0	20227.8
42.5°	15875.6	15906.5	15656.6	14981.1	13824.5	13090.4	12825.1	15249.4	21424.4	23111.7	22235.7
45°	16834.8	17026.1	16989.1	16449.3	15619.6	14857.7	14681.9	16890.4	23333.7	25384.9	24357.8
47.5°	17106.3	17282.1	17559.7	17633.7	17127.9	16378.4	16588.1	18867.5	25264.6	27661.3	26492.3
50°	16437.0	16600.4	17177.3	17945.3	18296.9	18065.5	18441.8	20986.5	27241.7	29931.3	28586.5
52.5°	15116.8	15283.4	16011.3	17226.6	18660.8	19388.8	20301.8	23074.7	29157.2	32081.3	30569.8
55°	13207.5	13383.3	14317.9	15693.6	17966.8	19934.7	21853.2	25159.8	30912.3	34015.1	32358.8
57.5°	10610.5	10740.1	11711.6	13636.3	16221.0	19391.9	22997.5	27436.1	32565.5	35915.2	34132.4
60°	6915.3	7029.4	8158.3	10305.1	13327.9	17578.2	23225.8	29974.6	34761.6	38385.8	36522.8
62.5°	4598.9	4676.0	5345.4	6921.5	9385.9	14095.9	21890.2	32001.0	37981.8	42685.5	40622.0
65°	3155.4	3232.4	3901.8	4999.8	6064.0	9324.2	18050.1	31732.7	40899.7	46100.0	43660.2
67.5°	2251.6	2316.4	2883.9	3920.3	4389.2	5416.3	12235.9	28302.8	40480.1	46229.5	43823.7
70°	1613.1	1650.1	2119.0	3053.6	3488.5	3254.1	6804.3	21646.6	35443.3	42688.6	40486.3
72.5°	1128.9	1141.2	1471.3	2325.6	2809.9	2375.0	3238.7	14432.1	26806.8	33506.2	31387.2
75°	765.0	780.3	990.1	1705.7	2254.7	1813.6	1714.9	7738.9	15736.8	18546.8	16625.1
77.5°	468.8	475.0	638.5	1165.9	1687.2	1381.8	1104.2	3278.8	6088.7	5977.6	5095.5
80°	265.3	265.3	407.1	724.9	1150.5	891.4	774.2	1394.2	1927.8	1693.4	1492.9
82.5°	148.0	151.2	296.1	450.3	761.9	527.5	425.7	644.6	832.8	737.2	641.5
85°	61.7	67.9	181.9	212.8	364.0	262.2	172.7	271.4	308.4	274.5	200.5
87.5°	6.1	9.2	55.6	40.1	43.2	52.5	24.7	52.5	43.2	43.2	30.9
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°	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3	7097.3
2.5°	7143.5	7097.3	6980.0	6844.3	6665.5	6579.1	6461.9	6381.6	6313.8	6320.0	6258.3
5°	7282.3	7165.2	6903.0	6576.0	6168.9	5878.9	5570.5	5357.7	5185.0	5148.0	5064.6
7.5°	7473.6	7288.6	6829.0	6239.8	5552.0	5030.7	4564.9	4265.7	4053.0	3985.1	3917.2
10°	7720.3	7452.0	6733.3	5817.3	4827.1	4164.0	3664.3	3429.9	3284.9	3235.6	3198.5
12.5°	8007.2	7640.1	6606.8	5302.1	4080.7	3442.3	3124.5	3007.4	2961.0	2945.6	2936.4
15°	8368.1	7874.6	6415.6	4691.4	3448.4	3001.2	2865.5	2850.0	2856.2	2850.0	2846.9
17.5°	8796.9	8130.6	6104.1	4062.2	3022.7	2776.0	2726.6	2739.0	2754.4	2751.3	2745.2
20°	9265.7	8383.5	5706.2	3504.0	2732.9	2615.6	2587.8	2600.2	2612.5	2606.4	2603.3
22.5°	9799.2	8654.9	5265.1	3069.1	2538.5	2467.6	2436.7	2439.8	2439.8	2427.4	2421.3
25°	10437.8	8954.1	4802.4	2760.5	2390.4	2335.0	2297.9	2285.5	2267.1	2230.1	2223.8
27.5°	11199.6	9271.8	4358.3	2544.7	2273.2	2220.8	2177.6	2146.8	2100.5	2038.8	2032.7
30°	12057.1	9657.3	3982.0	2409.0	2180.7	2128.3	2078.9	2032.7	1964.8	1887.6	1881.5
32.5°	13065.7	10070.7	3707.5	2319.5	2097.5	2041.9	1983.3	1927.8	1853.7	1776.6	1779.7
35°	14268.6	10570.3	3547.1	2257.8	2032.7	1958.6	1893.9	1832.2	1776.6	1708.8	1702.6
37.5°	15573.3	11100.9	3497.7	2226.9	1989.4	1875.3	1801.3	1758.1	1751.9	1711.9	1708.8
40°	17001.4	11730.1	3534.7	2208.5	1943.2	1795.2	1714.9	1705.7	1721.1	1650.1	1653.2
42.5°	18512.8	12476.5	3596.4	2186.8	1878.4	1714.9	1637.8	1637.8	1625.5	1526.8	1526.8
45°	20147.5	13337.1	3658.1	2134.5	1801.3	1634.8	1576.1	1554.5	1502.1	1406.5	1403.4
47.5°	21794.6	14213.1	3704.5	2038.8	1708.8	1566.9	1514.4	1465.1	1388.0	1301.6	1298.6
50°	23358.4	14999.6	3655.0	1897.0	1603.9	1502.1	1446.6	1378.7	1295.5	1236.9	1227.6
52.5°	24755.7	15681.3	3445.3	1730.4	1492.9	1434.3	1384.9	1313.9	1246.1	1184.4	1178.2
55°	25970.9	16233.4	3075.2	1573.1	1394.2	1375.7	1326.4	1236.9	1144.3	1091.9	1085.7
57.5°	27136.9	16652.9	2612.5	1443.5	1304.7	1310.9	1236.9	1156.7	1070.3	1014.7	1008.6
60°	28688.3	17214.3	2143.7	1323.2	1209.1	1227.6	1147.4	1088.8	980.8	909.9	900.7
62.5°	31168.2	18087.1	1702.6	1175.2	1098.1	1104.2	1070.3	999.4	869.8	786.5	780.3
65°	33136.1	17766.3	1341.7	1014.7	971.6	980.8	980.8	903.7	765.0	669.3	660.1
67.5°	32914.0	15212.4	1070.3	857.5	851.3	857.5	879.0	814.3	678.6	601.5	589.2
70°	30320.0	12100.2	857.5	712.5	740.3	724.9	786.5	743.3	610.7	533.6	524.4
72.5°	24740.2	8716.6	653.9	589.2	567.5	592.2	709.4	669.3	508.9	422.6	413.3
75°	14456.7	4651.3	487.4	465.8	410.2	493.5	629.2	570.6	388.7	311.5	302.3
77.5°	4706.8	1622.4	357.8	342.3	305.3	397.9	536.7	481.1	317.6	246.7	237.5
80°	1261.6	490.5	243.6	225.2	197.4	296.1	425.7	382.4	228.3	160.4	157.3
82.5°	505.8	206.6	141.9	126.5	107.9	203.6	336.2	308.4	169.6	101.8	101.8
85°	163.5	67.9	52.5	40.1	49.3	126.5	200.5	209.7	120.3	52.5	40.1
87.5°	21.6	9.2	9.2	12.3	9.2	21.6	61.7	58.6	33.9	6.1	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)