

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: P883056

Luminaire Tested: **NAV-SB3B-722-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9828 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

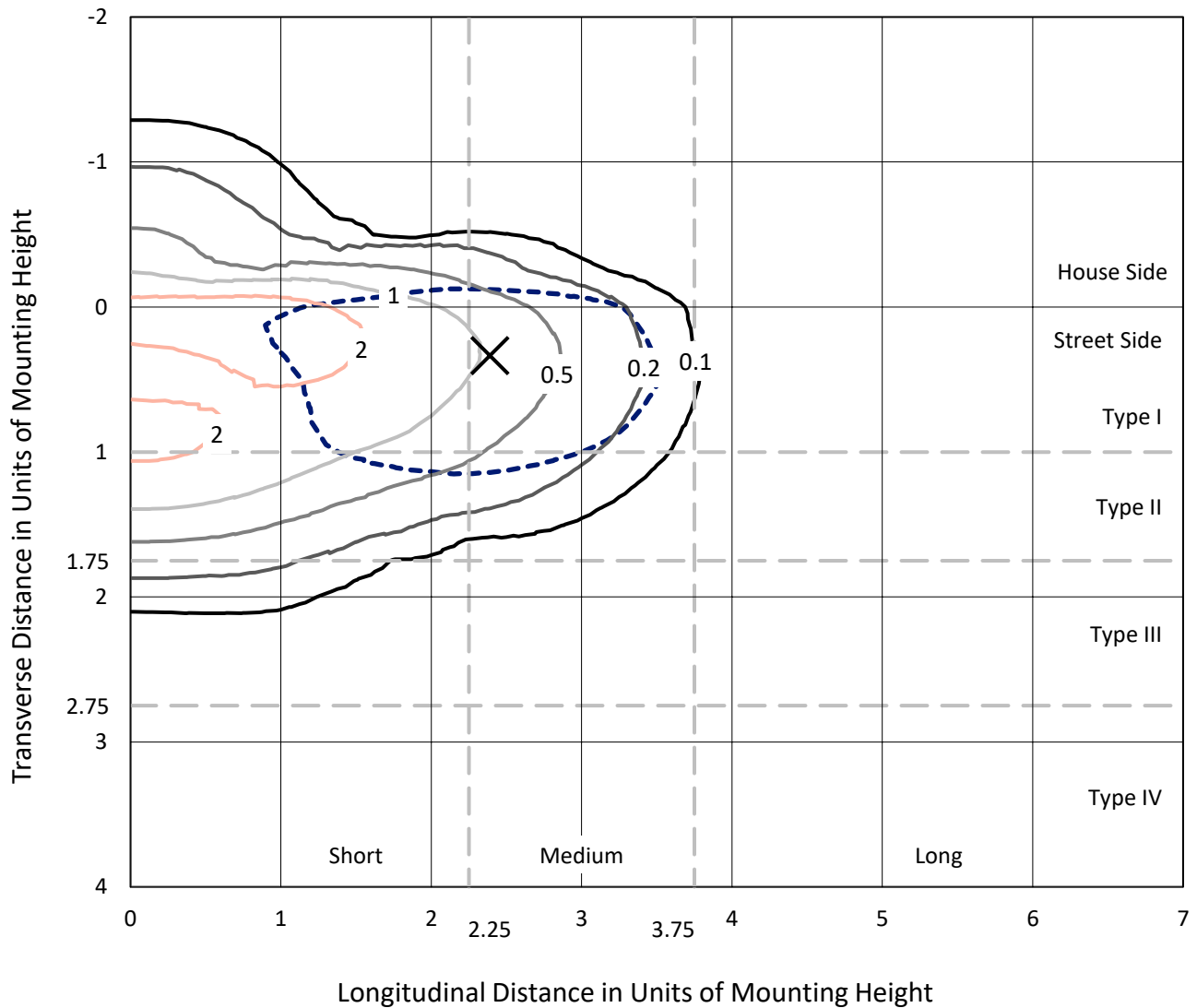
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

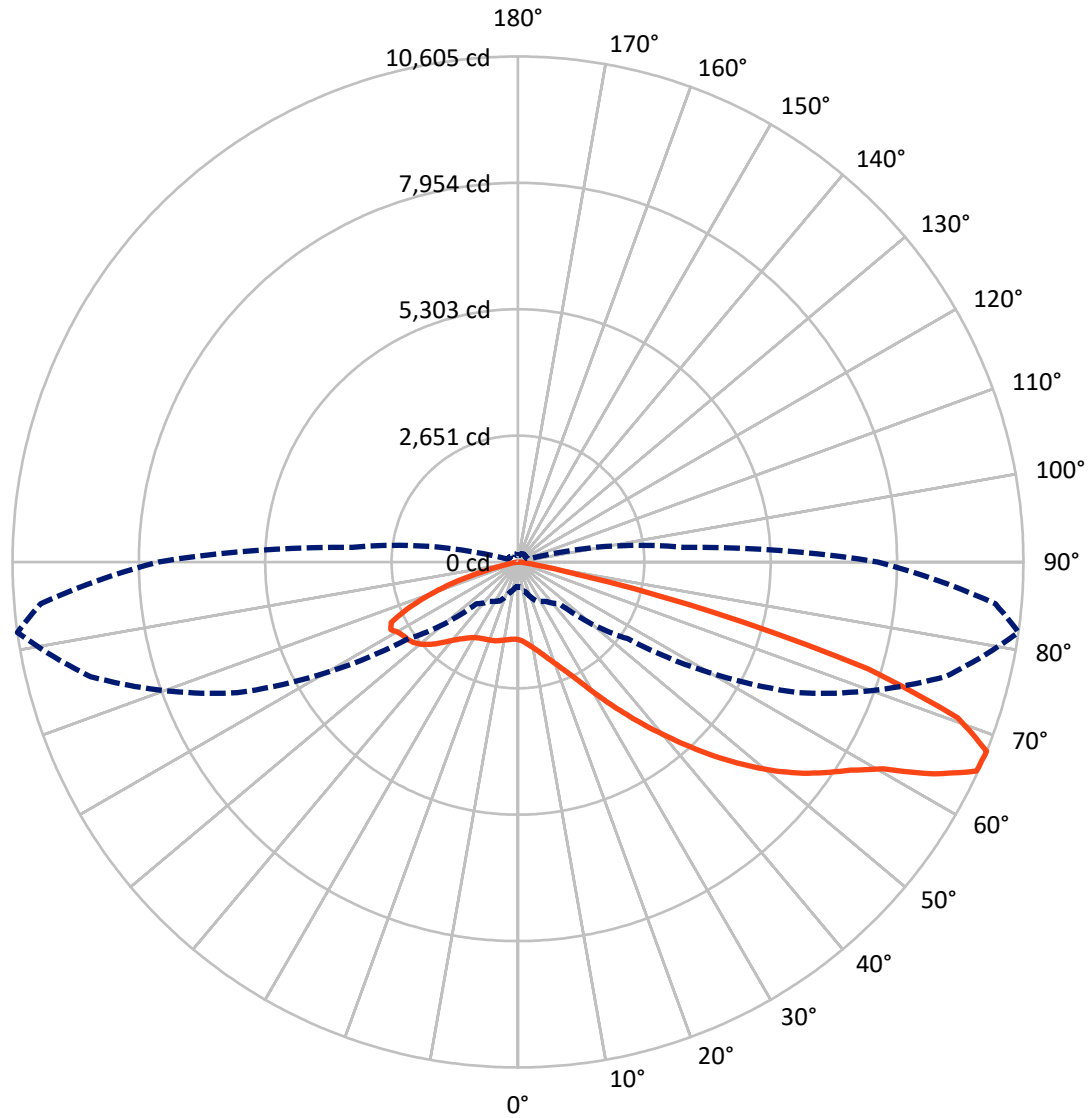
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1780.2	0.0	1780.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8047.7	0.0	8047.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	9828.0	0.0	9828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.5
10°-20°	376.9	3.8
20°-30°	603.7	6.1
30°-40°	1067.6	10.9
40°-50°	1870.6	19.0
50°-60°	2494.8	25.4
60°-70°	2322.5	23.6
70°-80°	891.4	9.1
80°-90°	55.4	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°	9828.0	100.0
0°-180°	9828.0	100.0

Coefficient of Utilization



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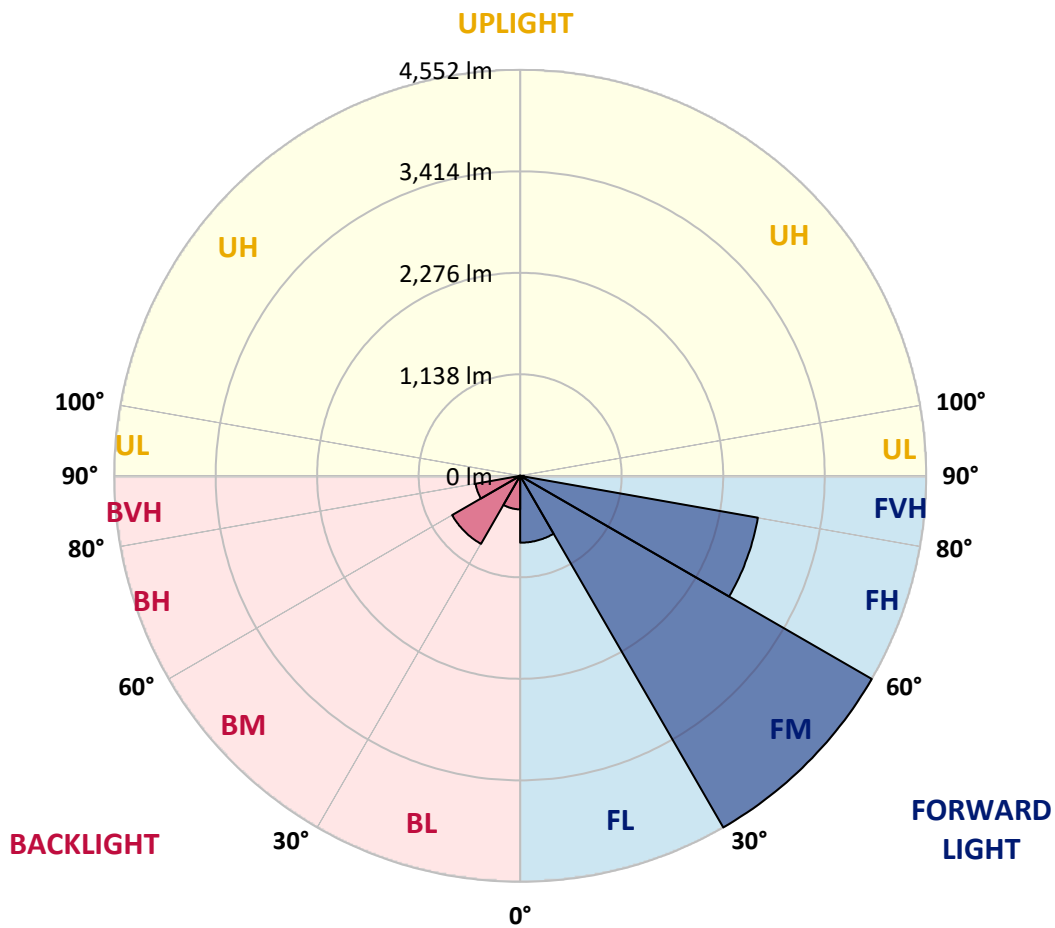
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.8	7.6			
FM (30°-60°)	4551.9	46.3			
FH (60°-80°)	2705.8	27.5			G2/5000
FVH (80°-90°)	40.2	0.4			G1/100
BL (0°-30°)	376.0	3.8	B1/500		
BM (30°-60°)	881.0	9.0	B1/1000		
BH (60°-80°)	508.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	15.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2
2.5°	1720.9	1730.8	1725.1	1722.3	1717.3	1710.2	1704.6	1686.9	1668.5	1656.5	1652.2
5°	1755.5	1765.4	1764.7	1767.6	1771.1	1773.2	1771.8	1752.0	1725.8	1705.3	1693.3
7.5°	1725.8	1737.1	1746.3	1760.5	1785.3	1811.4	1824.2	1819.9	1793.0	1764.7	1749.9
10°	1641.6	1653.6	1675.6	1708.8	1761.2	1817.8	1865.2	1887.1	1870.2	1839.0	1818.5
12.5°	1487.4	1499.4	1542.5	1614.7	1702.5	1800.8	1891.4	1950.1	1954.4	1923.2	1899.2
15°	1314.0	1326.0	1372.0	1462.6	1596.3	1754.1	1905.5	2016.6	2054.1	2027.2	1998.2
17.5°	1206.4	1217.1	1251.7	1324.6	1464.0	1660.7	1900.6	2087.4	2173.0	2151.8	2117.1
20°	1173.9	1183.1	1199.4	1250.3	1366.4	1563.8	1868.0	2153.9	2301.1	2289.1	2250.1
22.5°	1208.6	1217.1	1222.0	1244.7	1317.5	1500.1	1827.0	2221.8	2449.7	2451.1	2403.7
25°	1288.5	1297.0	1291.4	1305.5	1337.3	1480.3	1811.4	2301.8	2636.5	2652.1	2598.3
27.5°	1420.1	1420.8	1407.4	1406.7	1411.6	1510.0	1827.7	2387.4	2872.1	2901.1	2834.6
30°	1684.1	1673.5	1621.8	1565.9	1540.4	1599.2	1873.0	2488.6	3150.2	3201.8	3118.4
32.5°	2090.9	2075.4	1980.5	1846.8	1712.4	1742.8	1954.4	2603.9	3453.0	3546.4	3444.6
35°	2532.5	2528.2	2429.2	2230.3	1995.4	1947.3	2086.7	2755.4	3783.5	3932.1	3811.1
37.5°	2942.9	2940.7	2884.1	2649.9	2364.1	2232.4	2299.0	2953.5	4137.3	4352.4	4209.5
40°	3317.9	3324.3	3267.7	3058.2	2770.2	2598.3	2587.7	3198.3	4530.7	4810.2	4640.4
42.5°	3642.0	3649.0	3591.7	3436.8	3171.4	3003.0	2942.2	3498.3	4914.9	5302.0	5101.0
45°	3862.0	3905.9	3897.4	3773.6	3583.2	3408.5	3368.1	3874.8	5352.9	5823.5	5587.8
47.5°	3924.3	3964.6	4028.3	4045.3	3929.3	3757.3	3805.4	4328.3	5795.9	6345.7	6077.5
50°	3770.8	3808.3	3940.6	4116.8	4197.4	4144.4	4230.7	4814.4	6249.4	6866.5	6558.0
52.5°	3467.9	3506.1	3673.1	3951.9	4280.9	4447.9	4657.4	5293.5	6688.9	7359.7	7012.9
55°	3029.9	3070.2	3284.6	3600.2	4121.7	4573.2	5013.3	5771.8	7091.5	7803.3	7423.3
57.5°	2434.1	2463.8	2686.7	3128.3	3721.2	4448.6	5275.8	6294.0	7470.7	8239.2	7830.2
60°	1586.4	1612.6	1871.6	2364.1	3057.5	4032.6	5328.2	6876.4	7974.6	8806.0	8378.6
62.5°	1055.0	1072.7	1226.3	1587.8	2153.2	3233.7	5021.8	7341.3	8713.3	9792.4	9319.0
65°	723.9	741.6	895.1	1147.0	1391.1	2139.0	4140.8	7279.7	9382.7	10575.7	10016.0
67.5°	516.5	531.4	661.6	899.3	1006.9	1242.5	2807.0	6492.9	9286.4	10605.4	10053.5
70°	370.1	378.6	486.1	700.5	800.3	746.5	1560.9	4965.9	8130.9	9793.1	9287.8
72.5°	259.0	261.8	337.5	533.5	644.6	544.8	743.0	3310.8	6149.7	7686.6	7200.4
75°	175.5	179.0	227.1	391.3	517.2	416.1	393.4	1775.3	3610.1	4254.7	3813.9
77.5°	107.6	109.0	146.5	267.5	387.1	317.0	253.3	752.2	1396.8	1371.3	1168.9
80°	60.9	60.9	93.4	166.3	263.9	204.5	177.6	319.8	442.2	388.5	342.5
82.5°	34.0	34.7	67.9	103.3	174.8	121.0	97.6	147.9	191.0	169.1	147.2
85°	14.2	15.6	41.7	48.8	83.5	60.1	39.6	62.3	70.8	63.0	46.0
87.5°	1.4	2.1	12.7	9.2	9.9	12.0	5.7	12.0	9.9	9.9	7.1
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°	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2	1628.2
2.5°	1638.8	1628.2	1601.3	1570.1	1529.1	1509.3	1482.4	1464.0	1448.4	1449.9	1435.7
5°	1670.6	1643.7	1583.6	1508.6	1415.2	1348.7	1277.9	1229.1	1189.5	1181.0	1161.9
7.5°	1714.5	1672.0	1566.6	1431.5	1273.7	1154.1	1047.2	978.6	929.8	914.2	898.6
10°	1771.1	1709.5	1544.7	1334.5	1107.4	955.2	840.6	786.8	753.6	742.3	733.8
12.5°	1836.9	1752.7	1515.7	1216.3	936.1	789.7	716.8	689.9	679.3	675.7	673.6
15°	1919.7	1806.5	1471.8	1076.2	791.1	688.5	657.4	653.8	655.2	653.8	653.1
17.5°	2018.0	1865.2	1400.3	931.9	693.4	636.8	625.5	628.3	631.9	631.2	629.8
20°	2125.6	1923.2	1309.0	803.8	626.9	600.0	593.7	596.5	599.3	597.9	597.2
22.5°	2248.0	1985.5	1207.9	704.1	582.3	566.1	559.0	559.7	559.7	556.9	555.5
25°	2394.5	2054.1	1101.7	633.3	548.4	535.6	527.2	524.3	520.1	511.6	510.2
27.5°	2569.3	2127.0	999.8	583.8	521.5	509.5	499.6	492.5	481.9	467.7	466.3
30°	2766.0	2215.5	913.5	552.6	500.3	488.2	476.9	466.3	450.7	433.0	431.6
32.5°	2997.4	2310.3	850.5	532.1	481.2	468.4	455.0	442.2	425.3	407.6	408.3
35°	3273.3	2424.9	813.7	518.0	466.3	449.3	434.5	420.3	407.6	392.0	390.6
37.5°	3572.6	2546.6	802.4	510.9	456.4	430.2	413.2	403.3	401.9	392.7	392.0
40°	3900.2	2691.0	810.9	506.6	445.8	411.8	393.4	391.3	394.8	378.6	379.3
42.5°	4247.0	2862.2	825.1	501.7	430.9	393.4	375.7	375.7	372.9	350.3	350.3
45°	4622.0	3059.6	839.2	489.7	413.2	375.0	361.6	356.6	344.6	322.7	322.0
47.5°	4999.8	3260.6	849.8	467.7	392.0	359.5	347.4	336.1	318.4	298.6	297.9
50°	5358.6	3441.0	838.5	435.2	367.9	344.6	331.9	316.3	297.2	283.7	281.6
52.5°	5679.1	3597.4	790.4	397.0	342.5	329.0	317.7	301.4	285.9	271.7	270.3
55°	5957.9	3724.1	705.5	360.9	319.8	315.6	304.3	283.7	262.5	250.5	249.1
57.5°	6225.4	3820.3	599.3	331.2	299.3	300.7	283.7	265.3	245.5	232.8	231.4
60°	6581.3	3949.1	491.8	303.6	277.4	281.6	263.2	249.8	225.0	208.7	206.6
62.5°	7150.2	4149.3	390.6	269.6	251.9	253.3	245.5	229.3	199.5	180.4	179.0
65°	7601.7	4075.7	307.8	232.8	222.9	225.0	225.0	207.3	175.5	153.5	151.4
67.5°	7550.7	3489.8	245.5	196.7	195.3	196.7	201.7	186.8	155.7	138.0	135.1
70°	6955.6	2775.9	196.7	163.5	169.8	166.3	180.4	170.5	140.1	122.4	120.3
72.5°	5675.6	1999.7	150.0	135.1	130.2	135.9	162.7	153.5	116.8	96.9	94.8
75°	3316.5	1067.0	111.8	106.8	94.1	113.2	144.3	130.9	89.2	71.5	69.3
77.5°	1079.8	372.2	82.1	78.5	70.1	91.3	123.1	110.4	72.9	56.6	54.5
80°	289.4	112.5	55.9	51.7	45.3	67.9	97.6	87.7	52.4	36.8	36.1
82.5°	116.0	47.4	32.5	29.0	24.8	46.7	77.1	70.8	38.9	23.4	23.4
85°	37.5	15.6	12.0	9.2	11.3	29.0	46.0	48.1	27.6	12.0	9.2
87.5°	5.0	2.1	2.1	2.8	2.1	5.0	14.2	13.4	7.8	1.4	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)