

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: P885436

Luminaire Tested: **NAV-SB6D-722-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885436  
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-SB6D-722-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

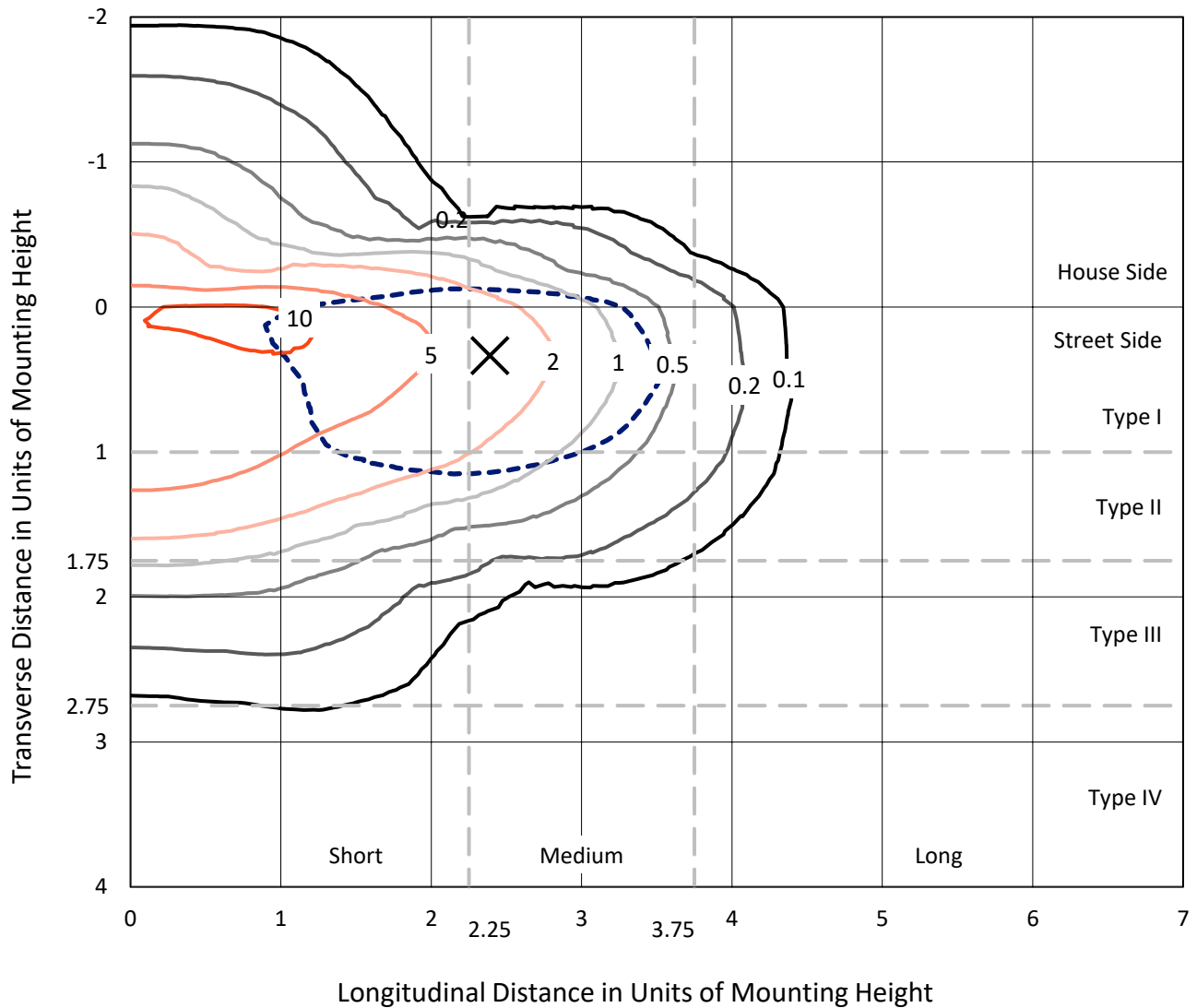
Lumens per Lamp: N/A  
Luminaire Lumens: 35941 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

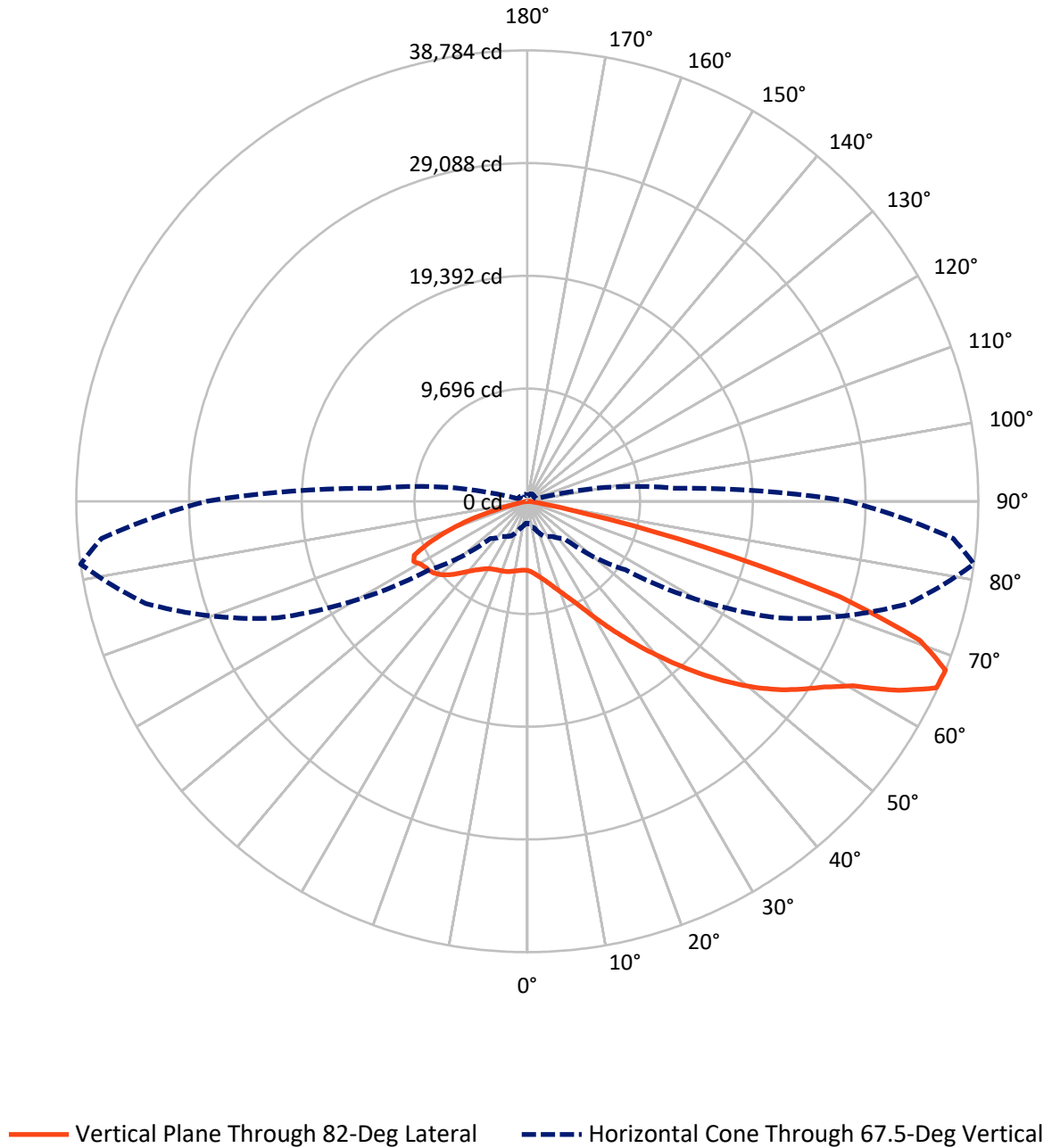
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P885436  
CATALOG NUMBER: NAV-SB6D-722-U-T2-HSS

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6510.4	0.0	6510.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29430.6	0.0	29430.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	35941.0	0.0	35941.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.5	1.5
10°-20°	1378.5	3.8
20°-30°	2207.9	6.1
30°-40°	3904.3	10.9
40°-50°	6840.6	19.0
50°-60°	9123.5	25.4
60°-70°	8493.5	23.6
70°-80°	3259.8	9.1
80°-90°	202.5	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°	35941.0	100.0
0°-180°	35941.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P885436

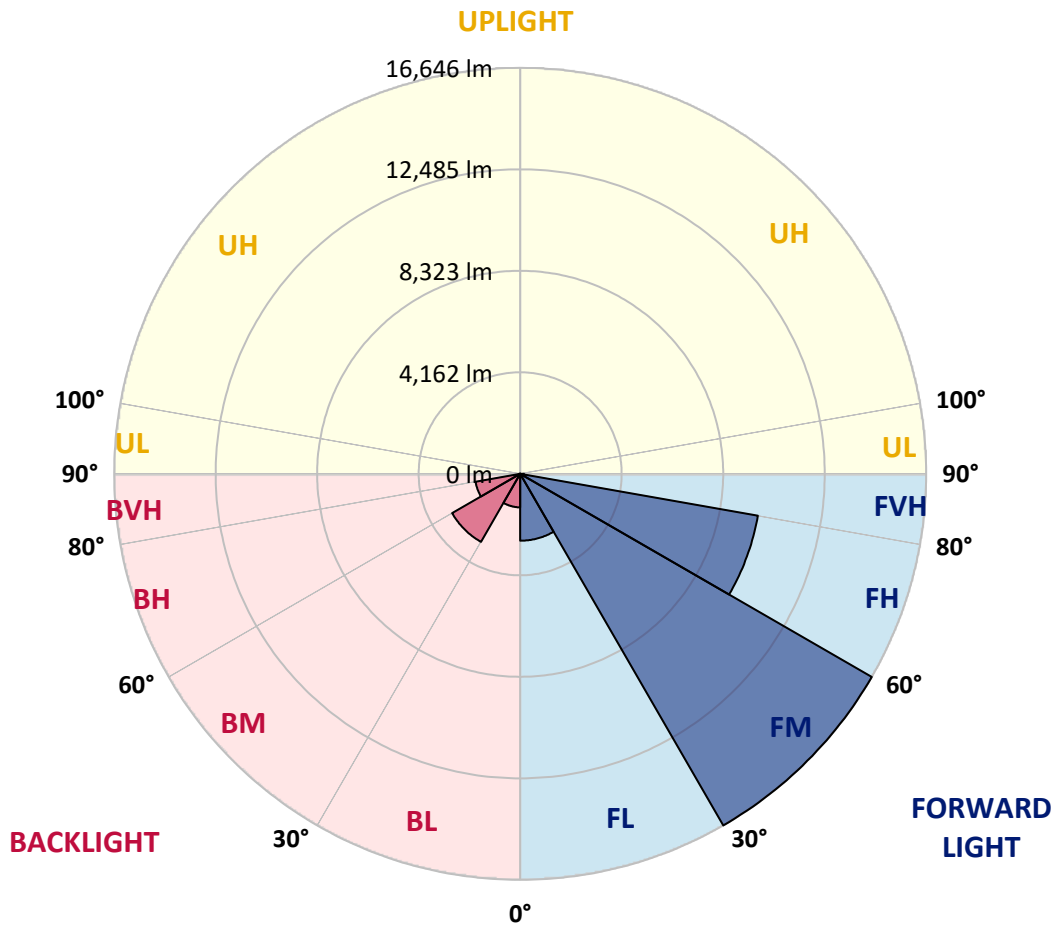
CATALOG NUMBER: NAV-SB6D-722-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2741.9	7.6			
FM (30°-60°)	16646.4	46.3			
FH (60°-80°)	9895.1	27.5			G4/12000
FVH (80°-90°)	147.2	0.4			G2/225
BL (0°-30°)	1375.0	3.8	B3/2500		
BM (30°-60°)	3222.0	9.0	B3/5000		
BH (60°-80°)	1858.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	55.3	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



REPORT NUMBER: P885436

CATALOG NUMBER: NAV-SB6D-722-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2
2.5°	6293.2	6329.4	6308.7	6298.4	6280.3	6254.4	6233.7	6169.0	6101.7	6057.7	6042.2
5°	6420.0	6456.2	6453.6	6464.0	6476.9	6484.7	6479.5	6407.0	6311.3	6236.3	6192.3
7.5°	6311.3	6352.7	6386.3	6438.1	6528.7	6624.4	6671.0	6655.5	6557.1	6453.6	6399.3
10°	6003.4	6047.4	6127.6	6249.2	6440.7	6647.7	6821.1	6901.3	6839.2	6725.3	6650.3
12.5°	5439.3	5483.3	5641.1	5905.0	6225.9	6585.6	6916.8	7131.6	7147.1	7033.3	6945.3
15°	4805.3	4849.3	5017.5	5348.7	5837.8	6414.8	6968.6	7374.8	7512.0	7413.6	7307.6
17.5°	4412.0	4450.8	4577.6	4844.1	5353.9	6073.2	6950.5	7633.6	7946.7	7869.1	7742.3
20°	4292.9	4326.6	4386.1	4572.4	4996.8	5718.7	6831.4	7876.8	8415.1	8371.1	8228.8
22.5°	4419.7	4450.8	4468.9	4551.7	4818.2	5485.8	6681.3	8125.3	8958.5	8963.7	8790.3
25°	4712.1	4743.2	4722.5	4774.2	4890.7	5413.4	6624.4	8417.7	9641.6	9698.6	9501.9
27.5°	5193.4	5196.0	5146.9	5144.3	5162.4	5522.1	6683.9	8730.8	10503.3	10609.4	10366.2
30°	6158.6	6119.8	5930.9	5726.5	5633.3	5848.1	6849.5	9100.8	11520.3	11709.2	11403.8
32.5°	7646.5	7589.6	7242.9	6753.8	6262.1	6373.4	7147.1	9522.6	12627.8	12969.4	12596.7
35°	9261.2	9245.7	8883.4	8156.3	7297.2	7121.2	7631.0	10076.4	13836.2	14379.6	13937.1
37.5°	10762.1	10754.3	10547.3	9690.8	8645.4	8164.1	8407.3	10800.9	15130.1	15916.7	15394.0
40°	12133.5	12156.8	11949.8	11183.9	10130.7	9501.9	9463.1	11696.2	16568.8	17590.9	16969.9
42.5°	13318.7	13344.6	13135.0	12568.3	11597.9	10982.0	10759.5	12793.4	17973.9	19389.3	18654.4
45°	14123.5	14283.9	14252.8	13800.0	13103.9	12464.8	12317.3	14170.0	19575.7	21296.4	20434.8
47.5°	14351.2	14498.7	14731.6	14793.7	14369.3	13740.5	13916.4	15828.7	21195.5	23206.1	22225.4
50°	13789.6	13926.8	14410.7	15055.0	15350.0	15155.9	15471.6	17606.4	22854.2	25110.7	23982.4
52.5°	12682.1	12821.9	13432.5	14452.1	15655.3	16266.0	17032.0	19358.3	24461.2	26914.3	25646.3
55°	11080.4	11227.9	12011.9	13166.0	15073.1	16724.1	18333.6	21107.5	25933.5	28536.7	27147.1
57.5°	8901.6	9010.2	9825.3	11440.0	13608.5	16268.6	19293.6	23017.2	27320.5	30130.7	28635.1
60°	5801.5	5897.3	6844.4	8645.4	11181.3	14747.1	19485.1	25146.9	29162.9	32203.4	30640.5
62.5°	3858.2	3922.9	4484.4	5806.7	7874.3	11825.6	18364.6	26847.0	31864.5	35810.6	34079.5
65°	2647.2	2711.9	3273.4	4194.6	5087.3	7822.5	15143.0	26621.9	34312.4	38675.2	36628.3
67.5°	1889.0	1943.3	2419.5	3288.9	3682.2	4543.9	10265.3	23744.4	33960.5	38783.9	36765.5
70°	1353.3	1384.4	1777.7	2561.8	2926.6	2730.0	5708.4	18160.2	29734.8	35813.2	33965.6
72.5°	947.1	957.4	1234.3	1951.1	2357.4	1992.5	2717.0	12107.7	22489.4	28109.8	26332.0
75°	641.7	654.7	830.6	1431.0	1891.6	1521.5	1438.7	6492.4	13202.2	15559.6	13947.5
77.5°	393.3	398.5	535.6	978.1	1415.5	1159.3	926.4	2750.7	5108.0	5014.9	4274.8
80°	222.5	222.5	341.6	608.1	965.2	747.8	649.5	1169.6	1617.3	1420.6	1252.4
82.5°	124.2	126.8	248.4	377.8	639.2	442.5	357.1	540.8	698.7	618.5	538.2
85°	51.8	56.9	152.7	178.5	305.3	220.0	144.9	227.7	258.8	230.3	168.2
87.5°	5.2	7.8	46.6	33.6	36.2	44.0	20.7	44.0	36.2	36.2	25.9
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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 CATALOG NUMBER: NAV-SB6D-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2
2.5°	5993.0	5954.2	5855.9	5742.0	5591.9	5519.5	5421.1	5353.9	5296.9	5302.1	5250.4
5°	6109.5	6011.1	5791.2	5516.9	5175.3	4932.1	4673.3	4494.8	4349.9	4318.8	4248.9
7.5°	6269.9	6114.6	5729.1	5234.8	4657.8	4220.5	3829.7	3578.7	3400.2	3343.3	3286.3
10°	6476.9	6251.8	5648.9	4880.3	4049.7	3493.3	3074.1	2877.5	2755.9	2714.5	2683.4
12.5°	6717.6	6409.6	5542.8	4448.2	3423.5	2887.8	2621.3	2523.0	2484.2	2471.2	2463.5
15°	7020.3	6606.3	5382.3	3935.8	2893.0	2517.8	2403.9	2391.0	2396.2	2391.0	2388.4
17.5°	7380.0	6821.1	5121.0	3407.9	2535.9	2328.9	2287.5	2297.8	2310.8	2308.2	2303.0
20°	7773.3	7033.3	4787.2	2939.6	2292.7	2194.3	2171.0	2181.4	2191.7	2186.6	2184.0
22.5°	8221.0	7261.0	4417.1	2574.7	2129.6	2070.1	2044.3	2046.8	2046.8	2036.5	2031.3
25°	8756.6	7512.0	4029.0	2316.0	2005.4	1958.9	1927.8	1917.5	1901.9	1870.9	1865.7
27.5°	9395.8	7778.5	3656.4	2134.8	1907.1	1863.1	1826.9	1801.0	1762.2	1710.4	1705.3
30°	10115.2	8102.0	3340.7	2021.0	1829.5	1785.5	1744.1	1705.3	1648.3	1583.6	1578.5
32.5°	10961.3	8448.7	3110.4	1945.9	1759.6	1713.0	1663.9	1617.3	1555.2	1490.5	1493.1
35°	11970.5	8867.9	2975.8	1894.2	1705.3	1643.2	1588.8	1537.1	1490.5	1433.6	1428.4
37.5°	13065.1	9313.0	2934.4	1868.3	1669.0	1573.3	1511.2	1475.0	1469.8	1436.2	1433.6
40°	14263.2	9840.9	2965.5	1852.8	1630.2	1506.0	1438.7	1431.0	1443.9	1384.4	1387.0
42.5°	15531.1	10467.1	3017.2	1834.7	1575.9	1438.7	1374.0	1374.0	1363.7	1280.9	1280.9
45°	16902.6	11189.0	3069.0	1790.7	1511.2	1371.5	1322.3	1304.2	1260.2	1180.0	1177.4
47.5°	18284.4	11923.9	3107.8	1710.4	1433.6	1314.5	1270.5	1229.1	1164.4	1092.0	1089.4
50°	19596.4	12583.8	3066.4	1591.4	1345.6	1260.2	1213.6	1156.7	1086.8	1037.7	1029.9
52.5°	20768.6	13155.7	2890.4	1451.7	1252.4	1203.3	1161.9	1102.3	1045.4	993.7	988.5
55°	21788.1	13618.9	2579.9	1319.7	1169.6	1154.1	1112.7	1037.7	960.0	916.0	910.9
57.5°	22766.2	13970.8	2191.7	1211.0	1094.6	1099.8	1037.7	970.4	897.9	851.3	846.2
60°	24067.8	14441.7	1798.4	1110.1	1014.4	1029.9	962.6	913.4	822.9	763.4	755.6
62.5°	26148.3	15174.0	1428.4	985.9	921.2	926.4	897.9	838.4	729.7	659.9	654.7
65°	27799.2	14904.9	1125.6	851.3	815.1	822.9	822.9	758.2	641.7	561.5	553.8
67.5°	27612.9	12762.3	897.9	719.4	714.2	719.4	737.5	683.1	569.3	504.6	494.2
70°	25436.7	10151.4	719.4	597.7	621.0	608.1	659.9	623.6	512.4	447.7	439.9
72.5°	20755.6	7312.7	548.6	494.2	476.1	496.8	595.2	561.5	427.0	354.5	346.7
75°	12128.4	3902.2	408.9	390.7	344.2	414.0	527.9	478.7	326.0	261.4	253.6
77.5°	3948.8	1361.1	300.2	287.2	256.2	333.8	450.3	403.7	266.5	207.0	199.2
80°	1058.4	411.4	204.4	188.9	165.6	248.4	357.1	320.9	191.5	134.6	132.0
82.5°	424.4	173.4	119.0	106.1	90.6	170.8	282.1	258.8	142.3	85.4	85.4
85°	137.1	56.9	44.0	33.6	41.4	106.1	168.2	176.0	100.9	44.0	33.6
87.5°	18.1	7.8	7.8	10.4	7.8	18.1	51.8	49.2	28.5	5.2	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)